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gagaaagagc 430

<210> 27688
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-C4

<400> 27688

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tcagtgttct actatgagat tctgaactca cctgatcgcg cctgcagtct tgcaaagcag 180
gcttttgacg aggccatctc ggaactggac accctgagcg aggagtccta caaggacagc 240
actttgatca tgcagctcct tcgtgataac ttgaccctat ggacttctga catctcggag 300
gaccctgctg aagagatt 318

<210> 27689
<211> 307
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-A5

<400> 27689

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gggatatcag ggctggcgag ttaacaagct tagtttccaa tgcccatgtt ggtagcgcat 180
attcaattgc ttggacacac ctgccagatg tgctgtttac cgggtggagag gatggcgcta 240
ttcgctgtt caatgtttct gatgtctctg atgatgaggg tgacattaaa ccagtggcaa 300
cttgggt 307

<210> 27690
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-A6

<400> 27690

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ctggtccatt tggtagctg aaagctctga gaacaaatcc aacagttact cctgatttat 180
ccatcaatcc cagattggcc aacatattgg aacaggttgc tgtgaagaaa gaactgatag 240
ttgcattggc aaattctaata gtgaaagaga tgcttgagat gtggttcact aacataaaac 300
gagctgggat ttcaaatt 318

<210> 27691

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-A7

<400> 27691

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ccatgaaacc ccctcagctg ccggcagggg agggggcctc ctgggctcac gaggtcaagc 120
aggccctccg tgagaaactc cggcgtcctt acggcgccgg agctgcctcc gccacaccgg 180
aggccaggcc ggccggcgaa ccaagccgtg gcgctgagtg ccgcggtcgc gcggccgagg 240
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ccggccg 307

<210> 27692

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-A8

<400> 27692

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gcatctagca acgaattagg gcatcagttg acgctgtcgg gtgccggtgc cgactgcctc 180

tctcacgcaa caaagcggca taaacggagc aacagctgat ggccgctctc cctcacctcg 240
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 aggctcgtgg attggctg 318

<210> 27693
 <211> 295
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-032-Q1-K1-B11
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 tgctgtcgtc ctctatacga tctctacctc aagcaactgg ttccagagca tcttgtggta 180
 tccacagatc catctgctta tctgggtgctc cagatagaac aattgagtga tgacctttat 240
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<210> 27694
 <211> 418
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-032-Q1-K1-B12
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 atcaatgggt ttggcaggat cggaaggctg gtggccagag tggccctgca gagcgacgac 180
 gtcgagctcg tcgccgtgaa cgaccccttc atcagcaccg attacatgac ctacatgttc 240
 aagtatgaca ctgtgcacgg acagtggaag caccatgagg tcaaggtgaa ggactccaag 300
 acccttctct ctggtgagaa ggaggttgct gagtttggct gcaggaaccc tgatgagatc 360
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<210> 27695
 <211> 160

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-032-Q1-K1-B3
 <400> 27695
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 aaaaaaaaaa aaaaaaggggg attatctttt aaaaattcaa 160

<210> 27696
 <211> 303
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-032-Q1-K1-B5
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 ctctctcat gatgaacgtt atgtgggtct cctctccata agcgggtgaga ccgagacact 180
 agacatgatg ccatcatcaa gcactgcacc tactgctcta tgacctgcac gtggtcagaa 240
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 caa 303

<210> 27697
 <211> 312
 <212> DNA
 <213> Zea mays
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 aaccacgtga tgaggctgct gcggaggagg aggaggctga gctggcggtc ctgtcccccg 120
 gagtcctaga acgtgacgac cctgttgctc ccgccgcctt cgtcgttggc tctgggaaca 180
 gtgcaactga ctacctgccg atgcctgagc cttttgatca tgactccgcc agttgcagtc 240
 ttaactactg taagctattg ctctgcaaga aggtttcctg tcctatttac ctgttctgcg 300

actcttacat ct

312

<210> 27698
<211> 308
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-B7

<400> 27698

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acttccataa aactatctcc ggaattcttt ccaacagtca agatcatcct taaccctagc 120
tctctcatg atcaacgtta tgtggctctc ctctccataa gctctgagac cgacacacta 180
accatgacaa catctgtaac cacctccacc tactgctcta tgacctccat cttctcataa 240
accacctcct atcaaaaactg aactaccag caagatgtct actgacataa ccagccacac 300
caataact 308

<210> 27699
<211> 317
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-B8

<400> 27699

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tctccctcca gcgccgcagc tagcccgaga agccgacgag gaggaaccg agcgccgacg 120
ccgagcacc cgggttcctt gcttgcccgg cgccgaatct agacagctct ttctcgttcg 180
tctgtatcca tggccgcgcg cgcgagcaag accgtcgctg tctctctcgc cgcgctgctc 240
ctcgcgctgg tcgcgtccgc ggtggccagc aggaagctgg aggaggacgc tttctctggga 300
agcctttcgc cggcgcc 317

<210> 27700
<211> 312
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-C1

<400> 27700

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ctgcagagtg taaaactggg atactagccg tgctcacggg catgagcagc tcggacactc 180

acatgattaa attatggaac ttaaactcaa ttgtcatat gcattgcacg gcatgtgagg 240

ttgttacttt tgggtactta tttaattggg ttggtattta cttatactta gtaattgcta 300

ataaaatttt ga 312

<210> 27701

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-032-Q1-K1-C10

<400> 27701

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cctcgacttg cgagctgctg gaggcctgcg actcccacgg ttggccgtcc agccactcgc 180

agtacacggt cttcttcgcc acatacctgt cgctcctctc cctccgcccg tcgcgcgcg 240

gccagggtgat cgccgctcgt ccatggccgc ttgccttctt caccatgctg tccagggtct 300

acctagggtta tcataccgct gcgcatgttt tcgcgggagc agtagtgggc ctctgttttg 360

gtgctatctg gtactggatt gtcaatacca tgcttggtta ttacttncca atgattgagg 420

agagtgcaaa tcg 433

<210> 27702

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-C11

<400> 27702

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 tattgaattc agtctggaag ttgctctggg agttctgcc aTcaggcaca tcatagaatc 180
 agcataaata aggcacaccc tttttttggg agattctgca cttgcctgac taaatgatcc 240
 tcacgatgga ataaaataca cagtaagtat gtttatacct tctatcaatg attttactaa 300
 ccttaaatta ttttgattag atatccattt gggggcagca aaactcgaga caacaactac 360
 gtacgctgtc aagatggcca tcgggcagca cgtaagcgag gatatacata 409

<210> 27703

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-C12

<400> 27703

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 gcagcgataa taatctatgg tgtttagcact gttaaaaaaa aataaaaaaa acaaaaaatg 120
 aaaatataga ataaaaaaa gaaagaagat atgaaagttc tgacaatcaa tgcacataat 180
 agaatcagaa atacatgatg cacaccctga ttatgggaga ttctgcacta gtctgactaa 240
 atgaccctga cgatggaata aaatacacat taagcatgta cataccttct atcaatgatg 300
 atactaacct taaatgatac agaatagata tccatttgca ggcaataaaa ctcgagacaa 360
 caactactta acatgtcaag atggacatta ggcaatacgt aaacgatgat atgata 416

<210> 27704

<211> 319

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 27704

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 gagggttgag tgcattgctc agctagaaga gaacaatatg ttgagaagta aactcaaaga 180
 cattgctgat cagtataaca ttactcagca gaaatatgct caccaattga aagagaaaat 240

gatggaactt gagcttgctg atctgagact tcaacaacat caagagaagg ctgctcacga 300
acatacccaa atgcagttg 319

<210> 27705
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-C2

<400> 27705

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aaggcagctg aaaaagcccg catgtctgca gtacttgctg atggtggctt gataattaag 180
gaccacattg ttactttgga gcctgtgact ggtgaagctg agaaggatta ttgggacaca 240
atccgcagta ttcaaggaaa gtacaaggat agtagaagct acaagggaag ggcttcaaat 300
aaccagagag gaggaaagcc 320

<210> 27706
<211> 315
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-032-Q1-K1-C3

<400> 27706

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aagagcgcca cgttctttct tctccctgtc aacattccga agcaaggagg gtgatgccag 120
gtcaggtga tcctcagaaa gacagaagac accagaggtg gagtgtataa aatatcttcc 180
gaggttaggt atgagtatca aattttcagg gcggtacgcg gacgctgcta gcttgtgatt 240
ataaatatat aaatatatat gttgtgtatc tatggcaatt catataagct accagttgag 300
cccccatgg ttact 315

<210> 27707
<211> 359
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-H1

<400> 27707

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cgtagagtga ataattgcct gcttcgaaaa ctgctaaaaa acttacaatt aattccgatt 120

cttgtggggt cacttgagga gccagcaaac caccaaccaa ggggccgaga gcaggtatct 180

agagcaagat gtacggctag aaggctcgact ggctgtagga gccgttgacc aagtcgttat 240

acatcttctt atacacctgc ttcttgacgt agatgccta ccacttgagc taagactacg 300

cgtagagca cgccgtcgcg caaggcatgc cgtactggtc gccgttcttg tcgtcgtac 359

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-H10

<400> 27708

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caagtgcggc gtcagcatcc cctacaccat cagcacctcc accgactgct ccagggtgaa 120

ctaaaacctt gaccacgcgc gacgacggcc gcctgatcga tcgatcgacc attccgccgt 180

cgccgccggc cggatcatcg atcgtcgtca tgatgatatc tatcaatcta cgcgtgatga 240

tcgattgcta cttgtctact gctatgtact actaaataaa atctctccgt gtgtacacgt 300

acgcttgcac gtgcatggta gcatgtacgt acgacgtcgt ccatgtataa gtgtgtgacg 360

tgtgagacag agagagagag agacaggatc gatcg 395

<210> 27709

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-H11

<400> 27709

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 gcaggtttgt cgatacgagg tcaaaggcat cgcaaaaccc tctgtactgc cattgttttag 240
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 atagtctgca tttttgtcgt tagcatgtgt cgctagggat tgctattgat tttcttgtaa 360
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 taacatt 427

<210> 27710
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-H12

<400> 27710

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 catccgttcg acaacaaatt ttggcacaac ttccacaggt tcagcacttg aacaatctaa 180
 gttaccaaca caaggcattt taagttcaga gaaaagtgag aaataaacac atggccattt 240
 ctagtccatc tttactccaa caaaacctta gatgctgctc gggtagatga acactctgac 300
 cttgcgcccc atggactcag gcgggaggtt ggacttgaac ttggcacgga cgacgcccga 360
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<210> 27711
 <211> 172
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-H2

<400> 27711

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 tacatgcatt gtgtcatatc ctgcaaaggg tgttttaccga gccctcgccc attcagacta 120
 cggcctgata actcttctgg caaccgatga tgcattgggt ctccatctat gc 172

<210> 27712
 <211> 461
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-031-Q1-K1-H3

 <400> 27712

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 taacgccttc aagaacaaga ggggtgcttat ggagagtatc cacaagtcca aggctgagaa 180
 ggccagagag aagacacttt ctgaccagtt tgaggccaag cgcgccaaga gcaaggcgag 240
 ccgtgagagg aagatcgcta ggagggagga gaggttggcc cagggtccac gagaaataac 300
 accacctgtc tcatccacag ctccagctac tggggcaccg aagaaagcaa agaagtgaag 360
 tattgaaata aagctgtagc tttctagtcc agtactgcac tttcttttat aagctctagt 420
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<210> 27713
 <211> 467
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 27713

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 gtagcaaggg aatctctccc atggagtcca caaccataaa ttgtgattat ataactagcg 180
 tgatgtagga cacatacaat gaaggccagg atgtcacaag gctacctaac tgtatatttg 240
 catgcagctg agtggctgac tgaggccaca agtttgatct aactttgtac ttgtacacag 300
 ggttgaaaaa caggaagaag gtacattttg tttttgtaag tagcgtangt tggtagtgc 360
 tgggctcaga ttggggcccc tcaagtttca ttaaagcttg ttcccgtgcc tcgtcgagtgc 420
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<210> 27714
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-H6

<400> 27714

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gcccgcatgg ccaaggtcaa ggagcatggc aagctgctgg tcatcgactt catggccgcc 180
tggtgcagtg tgtgccagat gatggccacg gtgtacgctg actgcgtcag caagtactct 240
tccgcggtct tcctcgtggg cgacgtcgac gaactgctgt aagtcgctaa gatctacggc 300
atccatgtga tgccgacctt ctgcttcatt atgaacggcg agacgc 346

<210> 27715
<211> 311
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-H7

<400> 27715

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gcggcaggaa gggagaaaag cggaagagcg ccgtcgacgg cttacgtcca gggtcgatcc 120
gtcctcaata gatggcttgt gaggatcgta gaggtgtact aatggtgtct tgaccttgac 180
ccactggaac ttgtgcggtc gcatggcaat ttctcgccga agtggatgaa ccaccgtaat 240
tccggccttt atcgtggcct gacctgtcgt cattttcact gccgtgcgag gacacgtgtc 300
atcttgaaat g 311

<210> 27716
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-H8

<400> 27716

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gttattaaga gctgctgtgg tagaaggaag aaaaagaaca agagttatat ggatagtcaa 180
agccgtatta tgaagagaac agaattctca gctcccatct tcaatatgga agacatcgaa 240
gaggggtattg aagggttatga ggatgaaagg tcagtgccta tgtcccagag gaaattggag 300
aaacgctttg gtcagtctcc tattttcatt gcattccact ttatgacaca aggtggcata 360
ccaccttcaa caaaccagc ttctctacta aaggaagcta tccatgtcat cagttgtgga 420
tatgaggaca aaactgaatg gggaaaagag attggctgga tc 462

<210> 27717
<211> 341
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-031-Q1-K1-H9
<400> 27717

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ccggagaaga agcagcagca gcagcaggaa gggccacacg actcgccgcc gcagcaggat 180
cttcttagta tctagaagcg cagttgagag agttggctgt actgatggta cttggtagca 240
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<210> 27718
<211> 311
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-032-Q1-K1-A1
<400> 27718

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cctcgccgag ttcatcctca ccttctctt cgtcttcgcc ggcgttggtt ccgcatggc 120
aacaggaag ctggccggcg gcggcgggga cacggtggtg ggcctgacgg cggtggcgct 180
ggcgcacacg ctggtggtgg ccgtcatggt gtcagcgggg ctgcacgtct ccggcgggca 240

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 cgcgctctac g 311

<210> 27719
 <211> 430
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-032-Q1-K1-A10
 <400> 27719

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 accagaccga cgctctcgag ccgccgcacc ggtacgtgcc ctgggtgggc gtcgacgggc 120
 agcccctgct agaggtaagt tcctttcttt ccctgaact tcaacggcgc cgcctttgcc 180
 caactgtctg atcaaagttc attccccctg tgggtgtggt ggtgatgatg aacatgttct 240
 cgtcgatcca ggattacgag aatttcgagg cttacatctg caaggcttac aagggcactc 300
 caccgaaggc ctgtgagggc ctggaacgtc tgcagatggc cctcgagaca gcggcggatg 360
 cgcgcaacgg cgtcagctac aactccggtg tcagcaagct tgcgactgct gaagatgatg 420
 gtggggagca 430

<210> 27720
 <211> 394
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-032-Q1-K1-A11
 <400> 27720

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 actccgggcg cagctgccga cgtcgccacg cgcattccgc cgcgccaatc ggttacacga 120
 gcagggcggg ggatgacgtc gtcggcgctc gcgccggcgt ccaatggacc gcgctacgcg 180
 ccgccggatc caacgctgcc caagccgtgg aggggggtca tcgacggcaa cacggggtac 240
 ctctacttct ggaaccctga gaccaaggtt acgcagtacg agcgccccgt cgcggccgtg 300
 cccaactccc cgtcgcagcc gcctggctac tccaggcccc aggagaggcc gagaagcagc 360
 acaccttccg agcggagctc ggaaaccacg gtga 394

<210> 27721
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-A12

<400> 27721

gcgagcggct cgcccttttg tcgaatactt ttattcccaa tctccttcag ccattcccgt 60
ggcgctgtgc tctcttgctt atgtttctct ctcttgaaga aacccaata aggccacta 120
ccaatgcgta cgatgacagg tctacgacgc gaacctgctc ccaacggacc ccgctccggc 180
caaccgtacc aacctgccc aagccgcca ggcagctcat ccgcccggaa aaatgtgcaa 240
ccactacttc tgaaaccccg agaacaatgt tacgcatcac cgaccacgac ctcgaggctc 300
ttcccaactg cgagaccaag ccccatgcca acttcacgcc cgacgagagg ccagaagca 360
gcacatctac tcagcagaac 380

<210> 27722
<211> 311
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-A3

<400> 27722

cggacgcgtg ggcggacgcg tgggagagac tgaacagcag tccgagacgc catgaacgtg 60
gaggaggagg tcgggaggct caaggaggag atccataggc tcggccagca gcagcccgat 120
ggctcttaca aggtcaagtt tggcgttctc ttcaacgacg atcgggtgtg aaatatcttt 180
gaagcactag ttggcacctt gagggccgcc aagaagagga agatcttgac ctacgaaggc 240
gagctgcttc tgcaagggtg ccatgacaac gtggagataa ccctgttgcc cccacctgca 300
gttgctgccg c 311

<210> 27723
<211> 412
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-031-Q1-K1-G9

<400> 27723

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cgtgacgatc agccccgggc cgtaagccca ccggatcaac agcaggccgc agattcccct 120
gtttccagaa ctccgtcgaa tctctcccct cctccacgca gacgcagctc cctctcctct 180
cagccccac ccatcgagcc gctagcgccg gcgcccggcg gcggtatgga ggctgggtggc 240
gaggagtctg cgatcggcgt ggtgctctcc gcgaagacca ccctgnggga ggagtctgag 300
ggccagatcg tcgccttcga tcgacccttc aacctnctcg ttatccagga gggcgtgggg 360
agggcggaga gcggagagcg gcggaacgtg aaggtgctga aggcgaacta ca 412

<210> 27724

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-F12

<400> 27724

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ttcttcgaca tgaccgtcgg cggcgccccg gcggggccgga tcgtgatgga gctgtacgcc 120
aacgaggtgc ccaagaccgc ggagaacttc cgcgcgctgt gcacggggcga gaagggcgctg 180
ggcaagtccg ggaagccgct ccactacaag ggctccacct tccaccgct catccccgag 240
ttcatgtgcc agggcgggcga cttcacccgc ggcaacggca ccggcgggcga gtccatctac 300
ggcgagaagt tccccgacga gaagtctctg cgcaagcaca ccgaccccg tgtgctctgc 360
atggccaacg ccggggcccaa caccaacggc ttccagttct tcattct 406

<210> 27725

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-F2

<400> 27725

tttgcccgca gtgcttctgc ttcttctact tcttcttcta cttcccggcc ggcgggcgag 60

cttgggttag tggctcttct ttctggagac ctgtgaggag agccattatc atggccgctg 120
 ttgagactgt tgttctcaag ggtgctatgt catgccaggg ctgctccggg gctgtcagaa 180
 aaatgctctc gaaaaatgaa ggggttgaaa ctttcgacat atacctcaat gagcagaaaag 240
 tgacagtcaa aagcaatggt aagcctgtag acgtctttca gaccggtttc aaatttgggt 300
 aaaagacctt c 311

<210> 27726
 <211> 465
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-F4

<400> 27726

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 tcaggcccat tgccacatca gctgatatta ctacttctat ggatatgcgt ctaatgatga 120
 ataagatcaa gattgttgag ttcatctctg ttctactatc aattggtagt gcagctgcca 180
 aaacacgact gattcaacta ggagcaatca agcatgctat agatctatct tttgagtacc 240
 cgtttaacaa cttcttgac caccgtgcga gaatatcatc ggctcatgtt tggagagtaa 300
 gcaggatcga ctgattgacc atgtccttga tgattgtaaa cttgttacia gaattctgga 360
 agcagagaag aactctgctc tgtcgtcaga tttaacgaag catacattgt cttcagaggg 420
 aagattttca ccatggatag gaattgttgg tcatatgaca cagat 465

<210> 27727
 <211> 460
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-F5

<400> 27727

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 agacgcacgc acgtgggcga cgctctagt cgcaccgtac agggccgcat ccacgcgccg 120
 acaggccggg gccgagatgc gcctgcgcca gagtgcgcct cgccgggggt gtaccctgtc 180
 ctgcggtacg ccaaggccga ctcttacgtt ggctctcaa agtggcgaaa agtaggttgt 240

acgagtgtat ggtgaagacg atggagatct caccttgtat ttcactctgg aatcctacat 300
gaacactcga tgtacagcag cagcagcgtc cccgatgccga gcgtcatgac cgctcaggag 360
aaccgacagc gcgccatcga cggtaacacc aaccgctcgg tggagagaga ctctgtctga 420
taacgtgtca aagtctactc agtgataatc agattgagag 460

<210> 27728
<211> 455
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-031-Q1-K1-F6

<400> 27728

cccacgcgtc cgacttcagc aaagggtccgc gacaaagggtt acctttcctt tagtttggag 60
caatacctgc tgcagtcacc ctctgtaccg tgagtctgag cttatccagg agaactacct 120
tggtgtgaga aatgcagcac agaggaagct actggatgag ctgggcatcc cagcagaaga 180
tgccccagtt gaccaattca cccctctggg ccgaatgctt tacaaggcac catctgatgg 240
gaaatggggg gagcatgagc tcgactacct gctgttcacg gtccgggacg tgaagggtgca 300
gccgaaccca gatgaagtcg ctgatgtgaa gtacgtgaac cgcgaggagc tcaaggagct 360
catccggaag gctgacgctg gcgaagatgg ngtgaagatc tccnctggt tcatgctggt 420
ggtggacaac ttcctcatgg gctgggtggga ccatg 455

<210> 27729
<211> 461
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-031-Q1-K1-F7

<400> 27729

cacggtcatg gggaaaatcg tggtgtgcat gttcggagca agcgacgcgg atggcatctg 60
gttcgagaat gctgggtggag cagggatagt tgatgtggat tcttacgagt ggtctctgta 120
tggttccgcg ctttattcct tcacccttcc gggctctcacg ctcagctaca ccgccggcga 180
gaagctcagg gcgtacatgg tctcgggtgcc ctatccggtg gcgtccttga gcttcggctg 240

tgagacggtc atcagccgca agaatcgggc gccggtggtg gcgggattct cgtcgcgtgg 300
 cccaatcct gccgcacccg agctcctcaa gccgatgtc gtcgcgccgg gagtgaacat 360
 tcttgcggcc tggtcaggcg acgcaccact agcggnggtc ttcgttcccg atgggaggag 420
 agcgaactac aacatcatat cggggacttc catggcgtgc c 461

<210> 27730
 <211> 386
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-F9

<400> 27730

cctgaaccaa aaccagagcc taagccagag cataaacctg agccaaagcc agaggctaaa 60
 cccaaaccga aaccagagcc aaagccagag ccacaaccaa aaccagagcc taagccagag 120
 cctaaaccg aaccgaaacc ggagccaaag ccagagcccc aacctaagcc agagcctaag 180
 cctgagccat agccagaacg aaagccagag ccacaaccaa agcctgagcc taaaccagaa 240
 ccaaaaccag agccaaagcc agagcctaag cccgaaccaa aaccagagcc aaagcctgag 300
 cctaaaccg aaccaatgtc agaacctaaa ccagagccaa aagctgagcc gaaaccgaaa 360
 cccgatccag agccagagcc acaacc 386

<210> 27731
 <211> 250
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-G1

<400> 27731

acaatcatcc tagaaaaatg ctaatttatt gatattctgat ccacttcaaa ccaagtgtac 60
 gcggttattc ccgcttaaaa taccgccaat aaaactacaa ttcattccaa acctctaggt 120
 caatttaacg cccaaccaac ccacaacca ggcccagaac acagtctcta gcccaatcta 180
 taccgccaaa tgcacgccgc tttaaccccc cctttgacaa accccatata cattttctta 240
 tacgcggttt 250

<210> 27732

<211> 317
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-031-Q1-K1-G10

 <400> 27732

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 tcagctgggtg aactgttcga gcttgtgttc gaacgatcag ccgcggaaccg tgagcccacc 120
 ggatcaacag caagccgcag attcccctgg ttgcagaact ccgtcgaatc ctgcbagttcc 180
 tacacgcaga cgcagctgca tcttctctta gtcactactc atcgagccga tagcaccggc 240
 gcccggaacgc ttgatggagg ctggtggcga ggagttcgcg atcggcggtga cgctatgcac 300
 gaagaccatc ctggggg 317

<210> 27733
 <211> 378
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-031-Q1-K1-G11

 <400> 27733

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 gactaacacc gagctagcag ctgcgtctgt cctgcaacaa tggccgctcg ctctctctcc 120
 cagcagctgg tcgcggcggc ggtcctggca gcggcgctgc tgctgctggc ggcggggggcc 180
 gggacggcgt cggcggcggt gagctgcggc gaggtgacgt cgtcgggtggc gccgtgcctc 240
 gggtagcga tgggcagcgc ggcgtcgccc tccgcggggt gctgcagcgg ggtgcgctcg 300
 ctcaacagcc gtgcgtagtc ggcggcggac cggcaggcca cctgcaactg ccttaagagc 360
 atgacgggcc ggctcggc 378

<210> 27734
 <211> 359
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-031-Q1-K1-G12

 <400> 27734

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ccatcctcgt ttctccggc tagcagcctc tcaccctcat ggccaagatc aagatcgga 120
tcaatgggtt tggcaggatc ggaaggctgg tggccagggt ggccctgcag agcgacgacg 180
tcgagctcgt cgccgtgaac gaccccttca tgagcaccga ttacatgacc tacatgttca 240
agtatgacac tgtgcacgga cagtggaagc accatgaggt caaggtgaaa gactccaaga 300
cccttctctt tggtgagaag gacgttgctg tgtttggctg caggaaccct gatgagatc 359

<210> 27735
<211> 464
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-031-Q1-K1-G2

<400> 27735

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cgacgagggc aaggcgaaga aagtccttcg ccaggtcgag ttctacttca gcgacagcaa 120
cctccccgc gataagttcc tgcgggagac ggtcgagcag agcgatgacg gattggtgag 180
cttgcccttg atatgctcct tctcgcggtat gaagtccac ctggggctgg acgcagatgt 240
caagcccag actgtgccgg aggagaccgt gcttgcggtt gctgaggtgc tccggccttc 300
tcttgccctc cgcgtatcgg aagatggaaa gaagattggt agagctagtg aactcttgaa 360
gccagatgag atcatagaac aagtagactc taggactatt gctgtatctc cgctgccttg 420
caatgtaaag caggaagacg tncaatcttt tttcaciaat tatg 464

<210> 27736
<211> 255
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-G6

<400> 27736

ccgaaaacaa attttgcac tggtttttga aagcaaaatt tgttttcggt ggccttctag 60
aaaaaaaaa aaaaaaaaga ataaaaaaaa aaaaaaaaaa aattaaaaaa aaaaaaata 120
aaaaaaaaa aaataactga acaagacatt acaatcaaaa aatatgaaca atattgtggg 180

aatgcacttg atatgcttct tcttacagat gaaaaaccac ctggggctgg acgcagatgt 240
 caatccacga actgt 255

<210> 27737
 <211> 191
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-G7

<400> 27737

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 tggttggctg cgtttggtgt cagtcogttt tgtgtttgga tgtcacgggt tattatgttc 120
 ctgtgggctg ccactatata ttatagttgc ttgggatgtg tttttataa aaaaaaaaaa 180
 aaagggcggg c 191

<210> 27738
 <211> 304
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-G8

<400> 27738

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 ctttgtactt caacagaggg tggggcaggg cagatcagac aattttctgt gtttcttatt 120
 tccattgtag tctgggatct ctgttcttcc ctccatgcc tgtttgtagt aggcattcatt 180
 ctttgctcgt atatttggt gtagcattcc ttgtttgttg atcaatacac ctgttcagct 240
 tgtattgctt tcttcctcaa atggatgtat ggattcactt gcataacatc gtgaacaaac 300
 attc 304

<210> 27739
 <211> 458
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-031-Q1-K1-F10

<400> 27739

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gggtggaagtg tggcttcaga caataagtcc aggtcaaagg acgccaatcc acaggcattc 180

ctgtgaagaa gttttcactg tccctcaaagg gaagggtacg ctcttgatgg gatcaagctc 240

actaaagtac ccagggcagc cacaggaaat tcctttcttt cagaatacca cattttcaat 300

ccctgtaaat gatccacacc aggtttggaa ttctgacgag cacgaagatt tgcaagttct 360

tgtgatcata tcgagaccgg ctgctaagat attnttatat gatgattgga gcatgcctta 420

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<210> 27740

<211> 261

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-D2

<400> 27740

ctccaaacca aacgccccag cccacccgca cgcatacggc atacgcatcc ctcatctccc 60

tctcctggcc ttcccgcgcg ggcgcgcgct ctcctttccg aattccgact cccgcctccc 120

cgggggtcgt gtttccgcat ccggctcgtc cggcgatcct cgcgaggcct cctcgacccc 180

gaccccgacc cggcgcggcc accggttcaa gacattcaca aaaaaacatg ggcatgatg 240

aagctgtagg tactcagaat t 261

<210> 27741

<211> 301

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-D3

<400> 27741

tcggactctt gggaaaaaaaa aaaaaaaaaa tataaaaaaa aaaaaaaaaa aaaaaaaaaa 60

aagaaaaata taaaaaaaaa aaaaaaaaaa aaaaaaaaca aatttatata attatatattt 120

actatctctt aaatactatt atatacactt ttcttttata tataactaatt ttaattaact 180

tttatttttt tttaaattctt tttatttttt ataaattctt ttatacccaa ttactactc 240
 ttttatattt ttattttatt tttcattttt tcttatattt caatattttt acatcttttt 300
 t 301

<210> 27742
 <211> 205
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-031-Q1-K1-D4
 <400> 27742

ctcataaata gatgaatggt cagaaaaaat taaattaaaa aaaaattatt taattaaaaa 60
 gaaattgtat aaataaataa atttaataat caattttatt ttaaattatt atatcttttt 120
 ttccttcttt ttaactatat tattttctct tattcttttt tttttttttt tcttttttct 180
 tctcttcttt tttttttttt ttata 205

<210> 27743
 <211> 456
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-031-Q1-K1-D6
 <400> 27743

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 acaacatctg gcgtctctgc caggaaattt caaacagaca ttgaagctgg ccaggtgggc 120
 atcaacgtgc cgattccagt cccctgccc ttcttctctt tcacgggcag caaagcttca 180
 ttgcaggag atttgaattt ctacggcaag gctggcgtgc agttcttcac ccagatcaag 240
 acgatcacgc agcagtggaa ggagtcgccg gtgcagcggg tctcgctctc catgcccacc 300
 tcgcagaagt gagacgtcaa ggacgtcac gccactctcc aaagcttcac tcctttccac 360
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 cactccatgc atggccatga tactagtgtg tgctcg 456

<210> 27744
 <211> 460

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-D7

<400> 27744

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 ggccgactgg aagaccgccg ccaacatcct cttcacgggtg ccccctaagc gcaaggagtt 120
 cggctgtcta tttagtggcc caatatgcac ggaggagat caaaaggatg gaaggggaag 180
 cagaagagaa aaggaaaaaa gacgaggaac ttgagaaaca aaaacaggtc gaggaagaat 240
 ctgccaaagga ggatgctgat tcaaagcttt cgaagggtatt agacaggcta gatacactag 300
 aggggtgtcgt taaggagatt gtggatgaca aaaggaaact ttcttcccct gatttaccga 360
 ccaaagagga ggttgcaaag aaaaatgaag catctccggc taaggcttct gattccagaa 420
 gctatggtca gccagtgggtg gctgccaata gtaaggacac 460

<210> 27745
 <211> 450
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-D8

<400> 27745

cccacgcgtc cgccggacgcg tggggcgaca cttgcacggg tgtgcgggcg atcaggttgt 60
 gggggagcgt actcgtgact gctcgtttcg tccgctcgac taacgctgat ccagttcttc 120
 gtcgtcggcg ccgttcgtgg gactgcactg cttacatctg cctgcgtcga ctgcgtacga 180
 ctacatcgaa catatacacg agatgtctct tgtgaataga gccactgatg ccttgagcat 240
 cggtcactcc gcaggttcca tctaagagag aaggcaaaca actgtggaaa attgaccgca 300
 aagcacataa ggaggatgga taggaaggaa atggcatggt tcaaagtatt ctgccaaagga 360
 agaggcatac ctgtgctgac ctccgagctg ttcacacgga ctccaaaagc cgatcaatct 420
 ctgcgatcca tggtcaccaa tggaatatag 450

<210> 27746
 <211> 403
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-031-Q1-K1-D9

<400> 27746

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ggagggcgaa acccacagac cctctccctc ccgtactccg gcctacacat ccaggggcga 120
tgacgctggg tagctccggc gccggatcga gcgtcgtcgt tccccgaaac ttcaggctat 180
tagaggagct cgagcgtgga gagaagggca ttggatgatg aacagtgagc tatggaatgg 240
atgatgccga tgacatctac atgcgggtcat ggactggtag catcattggc cctcacaata 300
ctgtacatga gggtcgcata taccagctga agtngtttgt gacacggact attcggagaa 360
gccaccatct gtcagattcc actcaaatat caacatgaca tgc 403

<210> 27747

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-E10

<400> 27747

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acgcctacaa catgcgcaac acgatcaagg acgagaagat cgcgtccaag ctggctgccg 180
acgacaagaa gaagatcgag gacgccatcg acgcggccat cagctggctg gacgccaacc 240
agctcgccga ggcggacgag ttcgatgaca agatgaagga gctggagagc ctttgcaacc 300
ccatcatcgc caagatgtac cagggcgcggt gtgccgacat gggaagctcc ggcggtatgg 360
acgaggacgc tccggctgga agcgggtggac ctggccccaa gatcgatgaa gtggactaaa 420
cggtttgggt cagtctcgtg tgtct 445

<210> 27748

<211> 138

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-E11

<400> 27748
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 acctccacta caactaggca ggcgagatag ttaggtcaaa tcgatattga cctgagatga 120
 ctgatcatag cttaaatt 138

<210> 27749
 <211> 454
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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<400> 27749
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 cccggccgtg caagatgtca ccagcgtcga cgaggccgag aggatactca ccggggatga 120
 caaagccgtc cttgccttcc tcgacactct aaccggtact cacagtgcgc agcttgctgc 180
 tgcttcaagg ctggaagata gcatcaactt ttatcaaact tcgattcctg atgttgctaa 240
 gcttttccat atcgaccag cagcaaagcg tccatccatt gtactgctga agaaagagga 300
 ggagaagttg accttctatg atggaaagtt taaagcatca gccattgctg aatttgctgc 360
 tgctaacaag cttgctttga ttaccacact aactcaagaa actttcnctt ctatttatgg 420
 caatgcaatc aagaagcaga ttactatatt gctg 454

<210> 27750
 <211> 281
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-031-Q1-K1-E2

<400> 27750
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 acgttgatct cccgtgggac gctccagatt aggaaatagt gtaccattc gtggagctcc 120
 cgggaaccgt ctgatggcgg ttgatcagat aggattagat gttgggtact gtttcactctg 180
 atgggattgt gaccgtggat ccacgggcgg acgggcccga tgcgatctgg ttgtaattaa 240
 agccgaacaa tagatcctta atcctgtggt cgtcattgtg c 281

<210> 27751
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-E3

<400> 27751

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caggggcagc gggagcagca gttccgcctc tggttcgacc ccaccgccga cttccacacc 120
tactccatcc tctggaaccc caagcacgtc atcttcatgg tggacgacat gcccatcagg 180
gacttccgca acctggagag caaggggggtg gcgttcccca agagccagcc gatgcggctc 240
tactccagcc tgtggaacgc ggacgactgg gcgacgcagg gcgggcgcgt caagacggac 300
tgggtcccacg ccccttctc cgctcctac cgcggttca aggccgacgc ttgcgtcgcc 360
gtcgcgggcg gccggaccg ctgcggcgcc accgtcggca ccgagggcac cggcgcccc 420

<210> 27752
<211> 209
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-E4

<400> 27752

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ggagtttgag gaggagctg gaatgactaa attatggttg atgcagtaca gatataatattt 120
gagcttgaag aaaaatggcg ggcttagtct tgcactacaa gaagacagag tgaaagaaaa 180
ggggaggcac ttcttaaggg accaatttt 209

<210> 27753
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-E5

<400> 27753

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gccgccgcgc gagcttgggt tagtgtctct tcttcgcgga gacctgtgag gagagccatc 120
 atcatggccg ctgttgagac tgttgctctc aaggttgcta tgtcatgcga gggctgcgcc 180
 ggggcggtca gaagagtgtc ctccaagatg gaaggggttg aaaccttcga catagacctc 240
 aaggagcaga aggtgacagt caaaggcaat gtcaagcctg aggacgtctt ccagacgggt 300
 tccaagtcgg ggaagaggac ctctactgg gagggggaag ccacagcccc ggacgctgcg 360
 gcggctccag aagccgaagc agtcccagc accgcggcag aagcgccttc tgctgctgct 420
 ccggcggcgc cagagatcac cccagccaaa gctg 454

<210> 27754
 <211> 284
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-031-Q1-K1-E7
 <400> 27754

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 gaaggctgct ggcaaggcat ggtacaagac catggtctcg gacagcgact acaccgagtt 120
 tgagaacttc tcaaagtggc tcggcgtgac tcagtgcgcg gcaagggtag ttaagttctg 180
 agtagctcag cttatgttga gaggaagag aatccatcaa tctgttttat cctgcatcat 240
 cataacaagt tgctacaagt cttgcatggt cgagttgggt gtgc 284

<210> 27755
 <211> 226
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-031-Q1-K1-F1
 <400> 27755

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 gcctgctagc cgccgcggcg ccgtctttgc cctcgctcgg ccacgcgccg gcccgccccg 120
 ccgcgcgccc ttggggcttg gtcggccggc cggccacgcc ttgttccgcg gcgcgccata 180
 cgggtggggg ttggcttggc cggcccgggg ccgaccgggc acgcgc 226

<210> 27756
 <211> 456
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-031-Q1-K1-B5

 <400> 27756

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 accgccatcc gcgagatctg cctcctcaag gagatgcagc accgcaacat cgtcaggctg 120
 caggacgtcg tgcacaacga caagtgcac tacctcgtct tcgagtacct cgacctcgac 180
 ctcaagaagc acatggactc ctccacggac ttcaagaacc accgcatagt caaatccttc 240
 ctctaccaga ttctgcgggg catcgcttac tgccactcgc accgcgtgct ccaccgcgac 300
 ctgaagccgc agaacctgct gattgaccgn cgcaacaacc tcttgaagct cgcggacttt 360
 ggactggcga aggccttcgg catccctgtc cggacgttca ctcatgaggt acgtttcgca 420
 ccctgatgac acgctctcga tctggtagta tgctgg 456

<210> 27757
 <211> 231
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-031-Q1-K1-B7

 <400> 27757

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 atcgtaacat ctcgatcgca gtatccagag cgaggcgagg acaacatggc gcacattgga 120
 aggtggtgga gaccatatac cccgacgtgc ttattgtcca ctgacggcaa gtcaagaccg 180
 ctggcattgc tgaaaccctg tagctatgga acatgggtcat ctgtggacaa c 231

<210> 27758
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-031-Q1-K1-B8

 <400> 27758

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atggcccga cgaagcagac ggcgaggaag tccaccggcg gcaaggcgcc gaggaagcag 120
ttggcgacta aggcggcccc caagtctgcc cctgcgaccg gcggagttaa gaagccccac 180
cgcttccgcc ccggtaccgt cgcgctccgg gagatccgca agtaccagaa gagcacagag 240
ctgctgatcc gcaagctgcc gttccagcgc ctggtgcggg agatcgcgca ggacttcaag 300
accgacctac gcttccagag ctccgctgtc tccgcgctgc angaggcggc tgaggcctac 360
cttgtcggtc tcttcgagga caccaacctc tgcgccatcc acgccaagcg cgtcaccatc 420
atgcccaagg ac 432

<210> 27759
<211> 385
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-031-Q1-K1-B9
<400> 27759

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gctcctggac gccgtgagga agtacgccgt cgatggcact acgacggctc ctgcctcggc 120
gtccgcctaa ttcaggagat gtgatgtgta gcaaatagcg cgcgcgcacc agtcgtcaat 180
aaataaataa atgaataaat aaataaataa ataaaggcca acgtacgacg acaaattagt 240
ggcgcgcgcg gtagtagcta gcagagtatg cgccgtcact gtgtcgatct gcagtttggc 300
cgtttaatag tgattgtagt gtgtactatg tctagcttga tgatctcgga gtcggtatat 360
acgctcgctc ccgtgctgga cgggt 385

<210> 27760
<211> 77
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-031-Q1-K1-C1
<400> 27760

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gtagtgctag atcgcgca 77

<210> 27761
 <211> 466
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-031-Q1-K1-C10

 <400> 27761

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 ggcagggcag gcggcgatcc gaatccaatc gccggaggga ggaagccacc ggtggccgca 120
 gtgagggcgg cggaggtaga ggcaaaggga tgacgcgcgg gaagcagaag atcgacgcgc 180
 agcggcgtaa cgcgagcgga aaccagaaat ccaaggggtc tcagctcgag gcccgcgccg 240
 tcggcctcaa gatcgtctgc tccatctgca aggtacaatt ggcaaataaa aaacagctga 300
 ccgatcacta tggatcaaag catccaaagg agaaacctcc gagcacatcg agcaccgaat 360
 aaccatggct ggtcgtgacg cagaaatata gatccttggc tggtttgagg atctttaagt 420
 gcgtctgacg catgccttgg acctcaacgt caagtatata ctctct 466

<210> 27762
 <211> 377
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-031-Q1-K1-C11

 <400> 27762

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 attgacacaa aagttgcaga gtggagagag gaaggaaaag ccgatattgt ccctgggtgtt 120
 catgttatcg attaatcca catgctatac atcgagtgtc tctccttgct gaaccgcgcg 180
 ttgtaaaacg acatggcgcc gatcttagca atcgcaacga accgagggat cacgtctatc 240
 cgcgggacaa actaccgctc gccgcatggg atcccgcag acttccttga ccggctactg 300
 attatcacga cgcataattta cacggaggat gagatccgga agatcctgga tatccgggtgc 360
 gacgaggatg acgtgga 377

<210> 27763
 <211> 400

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-C12

<400> 27763

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 attgacacaa aagttgcaga gtggagagag gaaggaaaag ccgatattgt ccctgggtgtt 120
 ctgttcatcg atgaagtcca catgctagac atcgagtgtt tctccttcct gaaccgcgcg 180
 ttggaaaacg acatggcgcc gatcttagta atcgcaacga accgagggat cacgtctatc 240
 cgcgggacaa actaccgctc gccgcatggg atcccgcag acttccttga ccggctactg 300
 attatcacga cgcattccta cacggaggat gagatccgga agatcctgga tatccggtgc 360
 gacgaggaag acgtggagat gtccgctgat gccaaaggttc 400

<210> 27764
 <211> 191
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-C2

<400> 27764

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 ggcggttagc gcctacgcaa gctgcacgcg atcgacgaca ctaaacttga ggtgaaaggt 120
 ctgggtggact ccggagttaa atccatactg ttcattctac aacacccacc ggaagccctg 180
 agcgaaataa t 191

<210> 27765
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-C3

<400> 27765

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 tcgctctgtc ctgcaacaat ggccgctcgc tctcctccc agcagctggt cgcggcggcg 120
 gtccctggcag cggcgctgct gctgctggcg gcggaggccg ggacggcgctc ggcggcgggtg 180

agctgcggcg aggtgacgtc gtcggtggcg ccgtgcctcg ggtacgcgat gggcagcgcg 240
gcgtcgccct ccgcggcggtg ctgcagcggg gtgcgctcgc tcaacagccg cgcgtcgtcg 300
gcggcggacc ggcaggccac ctgcaactgc ctcaagagca tgacgggccc gctcggcggc 360
ggcgtcagca tggccaacgc cggcaacatc cccggcaagt gcg 403

<210> 27766
<211> 283
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-C5

<400> 27766

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ggttcgtgag gttctccggg gttcggatac atgggtgagc ggatcgagat ggctgcgacg 120
gatgttgagt accgctgctt cgtctgcggt ctcgtctggg ccacggacga cactccctt 180
cacaacggct tcagcaccta cggcgaggtc ctagagtcca agattatcct cgatcggtag 240
acgcataggg tcctcggatt cagcttcgtc accttcttca ctg 283

<210> 27767
<211> 439
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-031-Q1-K1-C6

<400> 27767

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cctcggagac ggagacgttc gccttccagg cggagatcaa ccagctgctc tcgctcatca 120
tcaacacctt ctactccaac aaggagatct tcctcaggga gctcatctnc aactcctncg 180
atgccttgga caagatcaag tttgagagtt tgacggacaa gaccaagctg gatgcacagc 240
cagagctggt catccacatt gtccccgaca aggccaacaa cacgctgaca atcatcgaca 300
gcggcattgg tatgaccaag tcagaccttg tgaacaacct tggtagcatt gcgcggtcag 360
gcacgaagga attcatggag gcacttgctg ctggtgctga tgtgtccatg attggccagt 420

tnggtgtcgg tttctactc

439

<210> 27768
<211> 458
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-031-Q1-K1-C7

<400> 27768

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ggcaaaacaa ggaggaggga tctgaagggtg attcagacga tgacttgccc cctctcgaga 120
agaatatgaa ccacctgaac ctggaagaag acgaagaaag cgaggaagag agtgaaagcg 180
agtaaaattg tgggtctgaaa gtgctgccat ggtaactnta cgactgtttt acaagtgaat 240
ttcagttgcc ttgcctgcta cgaagcaacc gttgtatgtg cttcagtgtc taatagccag 300
aataagcttc aatggccttt tgcgtccagat gttgaatgca tggttcggaa aagaaattct 360
tgtacgccct gtaatagtgt gtacctatag cactagcttt gaagattaat gatgagttga 420
acacattgag atcatttttc tttctaggag aatacaca 458

<210> 27769
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-C8

<400> 27769

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ggtgccagag acttgtgttc taaacacaac gttttgatga ttgctgatga gatccaaact 120
ggcatagcta gaactggtaa aatgctggca tgtgactggg aaaacatacg gcctgacatg 180
gtgattctag gcaaagcact cgggtgctgga gttgttccag tcagtgcagt tcttgcagac 240
aagggtgtca tgctgtgtat cagaccaagg gaacatggaa gtacattcgg tgggaatccg 300
ttagctagcg ctgtggcagt tgcattcactg aaagtgggtca gagacgaagg tctttgtgaa 360
agggctgcaa agttaggaca ggagtttagg gaccagttac agaaggtcca gcagatattc 420
cctcaaatcc taagagaagt gctgcggaag gggtt 455

<210> 27770
 <211> 408
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-031-Q1-K1-C9

 <400> 27770

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 gacttgctcg agaacttggg gattttttgc ttgtggggat tcacacagat cagaccataa 180
 gtgcaacacg aggacggcat cgcccaatca tgaatctcca tgagcgaagt ttgagtgttt 240
 tggcttgcgc ttatgttgat gaggtgatca ttgggtgctc atgggatgtt tcaaaagaca 300
 tgattaccac gttcaatata tcttttagtc ttcattggaac aattgctgag aacatggact 360
 tcacaaaaga cgattttacac ccatatgctt gttcaatggc tatgggca 408

<210> 27771
 <211> 281
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-031-Q1-K1-D1

 <400> 27771

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 tactcgcccc cgctctacag acaattaccc tcttgatcct ctcaagaagac gccgaaaccg 180
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 actatcttcc cagcgaattc tacctcccct gcctgctaca a 281

<210> 27772
 <211> 417
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-031-Q1-K1-D10

 <400> 27772

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agccgggaat ggagaagtat gcacggttgc caccagcctg ggcatacaga cctggagtgt 180
gcatgctgtc ctgctcctcg tgaaccccat gatgcaagac gtggacatta caaaaatgct 240
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atcgcatgct attttttttc ccggtgatgc cagtgtgtaa gaaccatgtc gttgcaggaa 360
tagtgaagca gtgggacctg gtattgtgac tacctagtat cccgtacgga gatggaa 417

<210> 27773
<211> 438
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-031-Q1-K1-B4
<400> 27773

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ggtacagagt tcaatgatca tccctctacc cagttaccct attcaccccc accaccctca 120
cagtcccagc atacttctcc atcacaatct tattcctctc cctcgtatca ggcaacaaca 180
gattaccctt cttctgattt tcacaaacca tcccccaatt attcaactcc cggctacaca 240
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tacacaagga cagatcgccc ttccaatgac ggctacaatc cttacagcaa ttggtaacca 360
gatgtttcgg cttaccctta agcatatcaa cccccaccct acacatttga ccctcagcac 420
aactcttaaa actactac 438

<210> 27774
<211> 442
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-030-Q1-K1-H7
<400> 27774

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ctgttgcaac ctctaattga gacgattact gcattatctg gtcctaaaac aaaaatattg 120

gtagcctctg tcccccttcc cagagattat ttctgcaaag cagttgtttg agaaccactg 180
aaccgctgct cgctatccac agctagggtta cgagatccgt tcgacaactg tccatgagaa 240
gatgatggaa atgtggaaaa gcaatttcat tgtgaaaacg gtctctagat cgaagatgga 300
tgtgaaatat cagcatccta gcatacatct ctacatgatg gacctgaagg caccattgat 360
ccctgaggtt gaggctgccg acaatgggaa ctacgaagaa gaggttgaag ttgctgtgaa 420
tcaagaggaa gacgaagatc ct 442

<210> 27775
<211> 388
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-030-Q1-K1-H9
<400> 27775

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gaagataagg acttatatga gcaggggaag aaagccttgc aggagaacat acgtcaacag 180
catgctgcca gcaccgatac tcagaaactg gtggatacca acgatcaaga tcctgaggac 240
gacatatcag atgcattcgc caaggcccga cagttgaaga atactgagaa cagtgaagaca 300
acccccaaaa ctgaggggtgg ctgagctgaa aaggggaccg ctgtcaccgg caaaggatgat 360
tgaagtgcaa acctgaacac atggcctg 388

<210> 27776
<211> 327
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-031-Q1-K1-A10
<400> 27776

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tccctatttc cctgtaccgt gtttcatggt gacttgtgac aatggatggt ttctccttgt 180
gcgtcgccat ttacaagctt ttttgtatgt ttgtctgaat gaatgttctg gatgaacgga 240

gtttcagcgc agtaaacaat tcacataacc tagctgatgt gttttccgtt ttaaaaaatg 300
cctttttcaa aatttgggtca attagct 327

<210> 27777
<211> 272
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-A11

<400> 27777

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agctagcagc tcgctctgtc ctgcaacaat ggccgctcgc tcctcctccc agcagctggt 120
cgcgggcgcg gtccctggcag cggcgctgct gctgctggcg gcggggggccg ggacggcgctc 180
ggcgggcggtg agctgcggcg aggtgacgtc gtcggtggcg ccgtgcctcg ggtacgcgat 240
gggcagcgcg gcgtcgccct ccgcggcggtg ct 272

<210> 27778
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-A3

<400> 27778

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actgacacgc gagctagcag ctgctctgtt cctgcaacaa tggccgctcg ctctcctccc 120
cagcagctgg tcgcggcggc ggtcctggca gcggcgctgc tgctgctggc ggcgggggcc 180
gggacggcgt cggcgggcgt gagctgcggc gaggtgacgt cgtcggtggc gccgtgcctc 240
gggtacgcga tgggcagcgc ggcgtcgccc tccgggcgt gctgcagcgg ggtgcgctcg 300
cttaacagcc gcgcgtcgtc ggcggcgga cggcaggcca cctgcaactg cctcaagagc 360
atgacgggcc ggctcggccg cggcgctcagc at 392

<210> 27779
<211> 267
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-A4

<400> 27779

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atgtgggaga tggggataacc aatcaagaaa gtgatctggg aaacatggat gactagtatg 120
gtggtgtaat aatgaattct gagattgatt atttgctga tccaaatgac catgttgcct 180
ggctgaagtt ggagctattc ctactcataa aggatagaag atcagctgtt cttatatctg 240
atgaactata aacactactt attgaaa 267

<210> 27780

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-A5

<400> 27780

ggggacttga gcagcgagcg ccacagatct cgatcctgaa gcttccgagc gagtgcttcc 60
gtcctcctcg cagtcagcca tggcccgcctc ctctctgcag tcgcagtcct ccgtcgggtg 120
cggcggcggc ggcggcggtg gcgcgcgcctc aggcaccgcg ggcccgcgcc agcctgacag 180
ttaaccacc tgaacgtgca caacacggaa tgaacaggc gtctgaaact ttgactgtcg 240
atttggaag gacagcctct gctctcagtg gcaaccctat taagggccat aacttaaaag 300
cgggtgttgg atcagtgcta gctactgaaa tctgtggagc a 341

<210> 27781

<211> 279

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-A6

<400> 27781

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gacttccaga tcggctctcc actggatttg cagttgcaga tcttgatttg tcaaaagttg 120
aggctgtgag aactcgaatg ccaatttcag agcaccggaa gttcgacagc gattggaaac 180
ccacgcctct ttagtagctg agggtttatt ttgtgtttcc tatgtttaat gtgcgtatac 240

acatatagtt gatataattca tctatgcata attattacc

279

<210> 27782
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-A7

<400> 27782

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acttcttcca agaacacatc gccatgagct ttatattgag tcgtctgttg aaggacccca 120
ttgtgggctt ttccctgttg gagcaccatc aacaagcaca acaactactg gcctgaaatg 180
gaatctaagt gaatcaaaga tgagatttgg gagcatgata agcacatcca acattgtgca 240
gtcggagaaa gtaactgtag aatctgatgc agatctcttg tggacaattt ctctgcgaaa 300
tctgacataa gcagttccta gtttgttata ttttttcttc tctttcctgt caagtggcaa 360
ccaagctctt gtacagccac ttttgtgttt atgagttgtg tgtctggtaa ataaatacca 420
tctgatgaca aatcgatgag gtctcatcat tagacaggat g 461

<210> 27783
<211> 463
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-031-Q1-K1-A8

<400> 27783

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tganggacaa gagggtgagg ctatagctga ggaacaaaag aagagtaacc atgtgcagag 120
gaagattgag aagcgacagc aggaccgtgc actcgacact catattgaag agcaatttgg 180
cagtgggaga ttgttggcct gcatttctgc ccgtcctggg cagtgtggcc gagctgatgg 240
ctacatcctt gagggtaaag agctcgagtt ctacatgaag aagctccaga ggaagaaggg 300
caaggtgtt gcattcttaga gcattctttt agctagaact gcaaaatata ttctacttgg 360
gggattttgt tgtagtctt tatgcatatc atttgcggac ctgatgaaca cttcataagt 420

gaatcaactc tcgattctaa gaattgataa ttttcacatg cgg

463

<210> 27784
<211> 78
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-A9

<400> 27784

cccacgcgtc cgaccacgcg tccggccaaa tggtatataa gatacataaa tggtagatgg 60

agatcatctg taagaatt 78

<210> 27785
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-B1

<400> 27785

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tgaccggaag gtgggaccaa gcaaccgagg gcgatagcca tggcgaagcc tggcagctgt 120

ggcgggtggcg gcctcctgga cttaaagggg cactacgcct ttacggcgc ctaccacagc 180

aaccccgta acgtgggcat ccacgagctc ttcaagtggc ccatcttctt gaccgcgctc 240

atgctcctcc accttaccga ccgcttcacg cagcccgta gcatcagcgc cgcggtctac 300

gcggtctact acttgctcct tga 323

<210> 27786
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-B10

<400> 27786

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cgtcgatggc gcggtgggct gcggtgctgg cgctggccgc ggccacggcc atcgccgtgg 120

cgtccgtggc gggcggcgac atgagcgcgg acaagacgga gtgcgcggac cagctggtgg 180

gcttgccgcc gtgcctgcag tacgtgcagg ggcaggcccc cgccgccgccc cccgactgct 240
 gcggcgccct gcgccagggtg ctggggaaga gcccacagtg cctgtgcgtg ctgctcaagg 300
 acaaggacga ccccaacctg ggcatcaaga tcaacgccac cctcgcgctc gcgctcccca 360
 acgctgcggg cgccaccgcg gccaacgtct gccactgcgc tcagcttctg catat 415

<210> 27787
 <211> 400
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-031-Q1-K1-B11
 <400> 27787

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 gttcctaata accgacgaat aatctcttct tcacctcact aacaccgagc tagcagctcg 120
 ctctgtcctg caacaatggc cgctcgtctc tctcccagc agctggctgc ggccggcggtc 180
 ctggcagcgg cgctgctgct gctggcgggc ggggcccggg cggcgtcggc ggccgtgagc 240
 tgccggcagg tgacgtcgtc ggtggcgccg tgccctcggg acgcgatggg cagcgcggcg 300
 tcgccctccg cggcgtgctg cagcgggggt cgctcgtca acagccgcgc gtcgtcggcg 360
 gcggaccggc aggccacctg caactgcctt aagagcatga 400

<210> 27788
 <211> 451
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-031-Q1-K1-B12
 <400> 27788

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 ttcagatagt caccacatgg agaggactac atgctcaaaa tcaacaggaa acattgaaga 120
 acttgctgtt gcagctacgt cagcaatgga ttgtacatta tgtaaagaaa atcatttgag 180
 catggaggaa ctccggatga tacatgttgc aaaatggagg acactctttc aacataacag 240
 attgcgccat tgggggtgta ggagaagtcc taagattcag ttgtttcttg agctaaggct 300
 acaaaagccc tctacgccta tagcttctga tagtatgtca actccaacaa aagaacagtc 360

atccctagag agcacaggaa accttgatat caccaaactt ctggatgaac tngaaatacc 420
atctcggttc tagaatagca catcgtcttc a 451

<210> 27789
<211> 185
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-B2

<400> 27789

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tgaagatgtg agccaacccat ctagtgctgg agacgactaa gatgcaggaa cacgcggcga 120
gcgacaagta ctgcatttag aacgcgctgg agtttgctga cggctagatc aaagaggcag 180
atggtt 185

<210> 27790
<211> 311
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-B3

<400> 27790

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tgctgttgtt ttctcttttc aataatcaag atgagccgtg gtggtagtgc ccgtggtggt 120
caaagtcttc tgggttatct ctttggaagc cgtgagcccc ccaaaccaac agtggcacca 180
gcttcaagtg cttcacctgt tgagaaacca tttgcttcaa agactgattc cggccaacaa 240
gttgcttctt ggggtaccag gccaaccaat tacttccaca aggcttattg tcagaacact 300
tgcaactttc t 311

<210> 27791
<211> 290
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-H6

<400> 27791

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 gaaaaaaata ataaaaataaa aaaaaataaa aaaaaaaaaa aaaaaaaaaa ataaaaaaaa 120
 aaaattaaaa gtttatatgg acgtgcattt tgagctatct aagattgaaa tcagttcctt 180
 aaaagctata actgtattat tagatgactt aattcaattt gaatgttcgt cttttcaaaa 240
 cgataatgat tgaaaaaacc gtgcagttac cgaagttaat cacctttgat 290

<210> 27792
 <211> 358
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-030-Q1-K1-G12

 <400> 27792

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 agctgaagga gatctttgcc acgggtatcg tgcttggaag ctacctcgct ctgatgactg 120
 tcattttctt ctgggctatg cacaagaccg acttcttctc ggacaaattc ggtgtgaggt 180
 cgatcagga cagcgagcat gagatgatgt ccgcgctgta cctccaagtg agtatcgtga 240
 gccaggctct gatcttcgct acccggtccc ggagctggct cttcgtggag cgccctggcc 300
 tgctcctggt caccgggtat ctgcttcgcc agcttgctgc gaccttctc gctgtcta 358

<210> 27793
 <211> 175
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-030-Q1-K1-G2

 <400> 27793

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 acgaacacgc gtacgaccac gcgtgcacga tgatcctgta tctgttataa atatcattat 120
 tattaaaaaa ataaaaaac atgaaaataa aattacataa aaaaaattgg acaaa 175

<210> 27794
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-G3

<400> 27794

cggacgcgtg ggcggacgcg tgggctgcag tacgctaacc agctgtgtga gcgtctgccg 60
agccgggacg gagagtcaac agtcagctgc caggagatct ccaagatgcc cagccttgcg 120
ttcaccatcg caaacaagac cttcacccta acacccgagc agtacattgt gaagctggag 180
caaggaggcc aaaccgtctg catcagtggg ttcattggcg atgacgtgcc accgccgcgt 240
ggtcctctct ggattcttgg ggacgtcttc atgggagctt accacacggt gtctgacttc 300
ggcaacgaca ggattggctt cgcggaatct gcatgagtgt ggagagcact ctcatcttta 360
taaagacgat accctatgta ttagggatgt gtaagttatt gtctatccac tacatgcca 420
cagtacgct 429

<210> 27795

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-G4

<400> 27795

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cggcggggac ccagtcgaga acacgaaggc gatggcgaca gcgctgaacc gcgggctccg 120
ctccgggctc cgcctcctcg ccgccggcgc cgaggcgtcc aagccagctt ctcgtggatt 180
ccatgccacc gtcgtgaaga gaatgggagg gcatggccat gatgagccat actacatcca 240
tgccaagcac atgtataact tgcacaggat gaagcatcag ggtttgaagg tgacactctc 300
cgtgctggga gcggttggca tcggcgttgg agtccctgtg tatgcagtca tattccagca 360
gaagaagact gcctctggct gagatgatgc ctc 393

<210> 27796

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-G5

<400> 27796

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 gggatcatgcg gtatatcaca aaggagatcg agattgttgc ggaccctatc catgaacacc 120
 tcggagaggg cataaggctg ggtgaggtgt gtccttcgat aggcaaaaat aatcacgtgc 180
 cttgtttatt attgttcttt tctgttcgtt ttttcatttg cttctgcaag ttctagctct 240
 agatcatacc tgtaaaatat gcagaggtct tttgcggatg atattcttat atcgtttttg 300
 ttagtcgcgc tgtactgtac cgtgtgatga ttatggagct gctttgtaag ccgtttttaa 360
 cctg 364

<210> 27797

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-G6

<400> 27797

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 gtggtgtgca cggcagctct gtgacttgtg aggaggaagg gaggaagaaa gcggatccat 120
 ggcgtaaaag cggatcctca aggagctcaa ggacctgcag aaggatcctc ccacctcttg 180
 cagcgcaggc cctgttgccg aagatatgtt ctactggcag gcgacgatta tggggccatc 240
 agatagccca tacgctgggtg gcgtattttt ggtcactatt cactttccac cggactaccc 300
 attcaaacca ccgaagggtg cattcaagac gaaggtttac caccgaata tcaacagcaa 360
 cgggagcatc tgtcttgata tcttgaagga gcaatggagc cctgcactga ca 412

<210> 27798

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-G7

<400> 27798

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 aggacaccaa cgatcgatcat cgtctgggtcc attctgctgg cttcaatctt ctcgctcctt 120
 cgggttcgga ttgatccttt ccttgccaag gatgatggtc cgcttcttga ggagtgtggg 180

ttggattgca actaggatgt cagtgcacatca gctcccgcaa tcgtgcatat gcttgaagta 240
ctattttcag gtgtttgtac ccatattcag tgtctgtcga taagagacat gaaatgtgcc 300
acgtctctat tgatccatgg tgaacctact taatatctga gagacatact gggggataat 360
ggcggctgcc gcaatccttg tgcagttggg ccgtggaata cagcatatgc aagtgcctga 420
ctgtgcagca ttcattatta 440

<210> 27799
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-G8

<400> 27799

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atgggaagag gatgagaata atgtagggtg gatgcctgct gttagccgca gcacacacag 180
aagatatttg cggaggaagg caaggcgtga tgccctcaaa gaatctggac aaagttttga 240
gacgagttct gttgctgcat caattgatag cgataaagtt ctctctgaaa atggagggtt 300
ggagcatggt ctgacttcaa cagggtggcct ctcttctgtc cctgagaaaa tcagtgcag 360
ttctgatggt cttgaacttc aagcagatgc tgaccctgaa attgctggag aacagttgca 420
ttctgacc 428

<210> 27800
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-G9

<400> 27800

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ctagtctcca agggggccggg cgatcagctg ggagacttcg tcaggccgcg tcaactggccg 180
gcaaggccag cactacccga ggagggccgt gcacgcctcg tcgtacgaca cgaacccgga 240

ggagcaggtg cgccccggcgt tctgtccgga cgtgtgatc agcagtgcag ggagccccga 300
 caagtactgg agccccacagc ccaagaccgg cgtgttctgg ccggcgggtg tggacaccaa 360
 ccagctgggc g 371

<210> 27801
 <211> 386
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-030-Q1-K1-H10
 <400> 27801

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 agtgtaccag gaaagaacgt gtcttggtta ctgctcttcg cagaagttgg aagaatattg 120
 ggaaaatgaa aatgtatctt ctctcaactc cagcagttta caggcgggaa aaaagagaaa 180
 gaaaagaaga ggcaggaaaa agcacaatcg tgcgaagaaa gctaatttac aggattctcc 240
 agcatcaact gctgctgata attctgggtt ggtgacgttt tctgagaact gtacttcac 300
 ccttaacta gaggaacaga tgaagaagca agatcaggac aagacatcca tgactaactt 360
 acttttaatc aacaatgcaa agagat 386

<210> 27802
 <211> 396
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-030-Q1-K1-H11
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 aggctgctgc tggcggcgct gtgcgtggtg gcggcggcgc tgctcgccgt gcggtcggag 180
 tcccacggcc tggaggactt cgcaagcagc gacgcgacgc cggagatgca gaccttcttc 240
 aagcccagag ccgcggcgct cccggaggcc ctggacgcgt cctccatgcc cgccgccacc 300
 atggccgcga agccggaggc cacgtcgatc ccgaccacca ccaccggcac cacgcggcg 360

gctgcagctg gcacctccgc cgcggcaggc actact

396

<210> 27803
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-H12

<400> 27803

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ctcgccgagg cggacgagtt cgatgacaag atgaaggagc tggagagcct ttgcaacccc 120
atcatcgcca agatgtacca gggcgccgggt gccgacatgg gaggctccgg cggcatggac 180
gaggacgctc cggctggaag cgggtggccct ggccccaaga tcgaggaggt ggactaagcg 240
gtttgtgtca gtctcgtgtg tctgctgcag tggctggctg gccagtcgc tgctcgattt 300
atcgtcgtcg tcgcggtgta tccgcgttag aaccctttgg tggatgaaca tattatcggg 360
gcacgcgttt taagtata 378

<210> 27804
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-H2

<400> 27804

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cgaagcgcca ccggaagggtg ctccgcgata acatccatgg gatcacgaag ccggcgatcc 180
ggcggctggc gcgcaagggc ggcgtgaagc gcatctccgg gctcatctac gaggagagcc 240
gcggcgtcct caagatcttc ctggagaacg tgatccgcga cgccgtcact tacaccgagc 300
acgctcgccg caccaccgtc acagccatgg acgtcgtcta cgcgctcaag cgccatggcc 360
gtaccc 366

<210> 27805
<211> 411
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-H3

<400> 27805

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ttcatggaga aatcaacccc gacagtgaag cttgagattc agctttacaa aacgagggat 180

gagaagtacc ttcttgacct gcaaagggtc agtggatcac atcttctatt tctggactcg 240

tgttccgcct ttctaactca tctgaaagtt ctttgagcct gacatgattg gcttcccaag 300

cactccttga tgcacccagt ggagtttcaa gttacatttg agatgcacat aatgaccata 360

tataatcctc caatagatta tattttctgg agcatgtaat gtagacgtta g 411

<210> 27806

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-H4

<400> 27806

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ggcgcgcggc ttcatgcttt tcaagatgat aagcaagccg acgccggaga cggtcgtgaa 120

cgagatcaac ctgttcgtgc tcatgcaccc cgctggcaag tactagcagc acacaccttg 180

atactcgagc gagtggctac taccgcattg tagatggaca aagtcttgtc gaagtgacta 240

tgtgcaatcc aactctttca gatgtattac tcttgtggaa acccaatgaa catgcaattt 300

atctgtcctc tgagcacaaa tgtaagccat tagcttggcc ttaccgcgtc ataaagacca 360

tatat 365

<210> 27807

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-H5

<400> 27807

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 ctctgtgggt tatatgcacg tgcaaaggag ctctctgaga atgaaatcag tgcctcaa 180
 gctttgattg gattattaga tggtttgggt caatctggag cttcaactgc aaaaaagaaa 240
 aagatagaag ttggtgagca gaaaaagaag aggatcaagt ctgatacaga ttctgcacga 300
 ttttctgctg catctatgag gaatcaactt gaccaagctg caagccttaa aggagagcag 360
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<210> 27808
 <211> 451
 <212> DNA
 <213> Zea mays
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<210> 27810
 <211> 367
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-E4

<400> 27810

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 tacatcacgg gtggatctgt cctgcatctt gtacttgctc tgaagggtgg ttactagtct 180
 aaacctgatg aactagcagt cagataaact gacgtgtcgg ctgctaaatg tgcaggcctg 240
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<210> 27811
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-E5

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 cggcgggctc cgtggtgacg gcggccaaacg tggagaagtt cccgggctg aacacgctgg 360
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 <211> 416
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 27812

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 gcgccgtcgt cctcgcgctc gccaccccg ggcctcgccg tgaccccgac atgctgcagg 180
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 cggcgggctc cgagggtgact gcggccaaacg tggagaagtt cccgggctg aacacactga 360
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<210> 27813
 <211> 441
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-030-Q1-K1-E7
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 catgtctgaa ttcaggcagg agtaccaggc gcagcacct agcaacaaga gcgttgccgc 180
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tgatgatgag gatggcggta gtgacgagga aaacgacgac gacgagtaaa tagtatctcc 420
gctgtcccga ggtaacaaat c 441

<210> 27814
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-E8

<400> 27814

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attgcttctc gtttgtttagc taggaagctg aagggtgaag gttatatgca aatcgtgttt 180
tcagtatcag cctttactct tttcctcccc gttgtcacca atttcctagt acctccctcc 240
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tttgagtcatt gtgttggcat attctggcca tcaatcatga agatgagatc tcaatatatt 360
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tgcttggtac tatac 435

<210> 27815
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-F1

<400> 27815

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gttcttgcatt cagaggtaga gatccttggg aaaagtttat ctgaggtttc agagaagaat 180
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ctgaacgatt ctgaagaatc ctgccagact caccttaca ataattcagc tctttctgct 300
gaaaagaaca atctgttctc tcagctggag agcattacat tggccatgaa agcactagaa 360
ggtatgcaca ccaatctgga acagatgcac tcctctgtat caagagagaa ggattttgca 420

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441

<210> 27816

<211> 294

<212> DNA

<213> Zea mays

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<400> 27816

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gacgaagggg aatgcgcgcc taccgccgga agtgaaccgg gtgctctacg tgcggaacct 180

gtcgtcaac atttcgtgcg acgagatgta ctacattttc ggcaagcaca gtgcgatcca 240

gtggatccgt ctgggcaacg ccaaggacac gcacaggacc gcttacgttg tcta 294

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<211> 383

<212> DNA

<213> Zea mays

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cagcctgctg atggagctca tcacgacgag gtcggctgcc ttgcgctcta gctcctcgtc 180

gtcgccgtcg tcgctggcca gcgaaagcga cgacgcgaag aacggcagtg aggacgggac 240

caggtacatc gtcacgtatt ctgcaaccgg cggccttggc acgggcaccg tctgtaggct 300

tggagcagca tgcttgctgc tgacactact atgctcttac ttggcattgc aggtgacatt 360

gacaacactt ggcttggagt ggc 383

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<212> DNA

<213> Zea mays

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<400> 27818

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cgacctcctc aggatcaacg tcgaccgcgg cgtgatgatc ggcgacggta agtcccgcctt 180
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catcctcagc tgtggtatct cgaccggcct tggcgcgaca ctgaatgtgg cgaaaccagc 360
caagggctcg acggtggcga ttttcgggct tggggctgta ggccttgctg ctatggaagg 420
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<210> 27819

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-F6

<400> 27819

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cggcgcccaa gctcagcgag acggcgacga agccgtcagc cggaagagc ggcggcgtta 180
agaaggctga gcagaagccc cgggaaacca aaaggaaggt gaagagcagc aaacaggcgg 240
cggcgcccaa aaagtgacgt acagtacgtg tggagtgtaa tggagcttcc atgcatgagt 300
gaatccatgc catgttatga atctagtcct tcctttcttg tatcttccat gtgacgcggc 360
gtgtgcgttc cctcatgtgt gatgatgcca gatgaatact acaaataaga cgttgttgtg 420
ac 422

<210> 27820

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-F7

<400> 27820

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t 421

<210> 27823
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-E2

<400> 27823

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tcgatgacac agatgcagga cccgccattg ttacgccttg agaatgagtc gtaccagctg 180
tgcctcagta tccttcagaa catatttctg gacagctctc ctgatcatgg aagcacagag 240
gtggtggaga gtcaccttat tggcttgtgc aaggagggtcc ttgaggtata cttgagcaca 300
gcaagacctt ctcagccttc cagtggcaca cagccgctag gccattggct tatccctgtt 360
ggttcacga agcgaatgga acttgccgga agagca 396

<210> 27824
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-C6

<400> 27824

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tgagcttggc tggaacaact gatagttata tatttggatc gtactgtccc tgttgatgt 180
atctaaattc tgaacgcgtt gcaatctgag catccgtgca aagtatgaat gttccttcta 240
tgaatacacg agttcatgtc cgacgg 266

<210> 27825
<211> 442
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-030-Q1-K1-C8

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cgaccccaac cgatgagcac cccaagatct accgcatgaa gctctggggc accaacgagg 180
ttcgcgccaa gtccaagttc tgggtacttc tgagaaagct caagaagggtg aagaagagca 240
atggccagat gcttgccatc aacgagatct ttgagcgcaa cccgaccacc atcaagaact 300
atggcatctg gctgcgtac cagagcagga ctggttacca caacatgtac aaggagtacc 360
gcgacaccac cctgaacggc gcagtggagc agatgtacaa cgagatggcc tncgccacc 420
gcgtgaggtc cccctgcata ca 442

<210> 27826
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-C9

<400> 27826

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ctcccttggg gaacgaacga aagaaactac tagctggtac cctaataata attctgctgg 180
ctgcggcgat cccaaaataa aagaggccgg gtgcgatgca tctcggactt ctcgagtgg 240
gtttgcgtca gacagccagc cactgtgggg ctagtgttcc aacatttgct agcctgcttg 300
cgcgaggaag gggggctact gactcaagag aagggcctgg tcataggctg ctgcattatg 360
aatttctgat gatgtcttat gtctgtactc tg 392

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<211> 472
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 27827

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aatggtaatg aatttctttg ttctgaatac gcctaagatg gtcttgcatt accaaatcaa 180
actctgcaat catctcaaca caggctaaga aatttccatt actatcacta taaagctgct 240
caatgcttcc tctaaaagcc aagttgcgtt taccaagaaa tttcacaatt gctattattc 300
ttagcaaaaac ttgtctcaaa cgttctttct ctttattgat ttgcttttgc aagtctttat 360
caatagtttc ctctttctgc attcgtgtcc tcaattcatt ccacttgntc atgttctgaa 420
aatgctcaac actattttca tggctctctag gctttgtact aatatttctc cc 472

<210> 27828

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-D12

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gctggatccg acggtgggtg gtgtgggtac caggggtgccg tcgaccagcc tacgatctgg 180
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taccaggtga agtgcaccgg acacgcgtcg tgctccggca atccggtgac agtgggtcatc 300
accgacctgt gccccggcgt tggatgccag gtggagcccc tgactatga cctgagctgt 360
ac 362

<210> 27829

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-D2

<400> 27829

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 ggtagacta atctgcgtaa tacaaaaacg gagtcggtct atgtaattaa aggctctagt 240
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 gtaaaggatg cggcgtggat ttggacgaaa gcaaatgggt gagcatgaag attaacacct 360
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 atgagacaat agaag 435

<210> 27830
 <211> 444
 <212> DNA
 <213> Zea mays
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 <400> 27830

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 ccatggaatc gccaccttc atgccgaggg aggaaggaag ttcattccacg gcaacatcaa 360
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<210> 27831
 <211> 308
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-030-Q1-K1-D4
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gaactattgc aggacgtttc tgttttgaaa tttggttggt ggttgaacta tgtctaattg 180
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<210> 27832
 <211> 440
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-D5

<400> 27832

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 aacttcacat tcatctcgct ctggagtctt tgaagggtgaa agcagcactt tctggagtga 240
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 cccctcagg aaagagcttt 440

<210> 27833
 <211> 286
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-D6

<400> 27833

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 cttctcctgt cgtctcacac aggtactgta ttacgcatgt gttttctagt gtccgtgcgg 240
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<210> 27834
 <211> 440
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-D7

<400> 27834

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atcctaccat aatgtttgga ggaattgagg gctctcaagt ctgcactgtg gcctttcagc  180
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<210> 27835
 <211> 313
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-D8

<400> 27835

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tcctcttctt cgcttctgcc gacgcattgc gctgcagggt cggcggatcc tgcctagtc  180
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<210> 27836
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-E1

<400> 27836

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taaaggtagt cagggcatac gaacctttat ggcttcaaca gctttccatt attccaaata 360
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<210> 27837

<211> 405

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-030-Q1-K1-C5

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aactatacca tttggcaciaa tggatgtcat gaatatgctc tgacctttca tgtacatcat 360
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<210> 27838

<211> 230

<212> DNA

<213> Zea mays

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<400> 27838

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ttaaagggtg gtgcaaagaa agctgtgata tctagaccat cagctaatagc tcacatgata 120
ggagatggtg ctaatgagaa tagctatcat ccatagatga atgttgctta taatgcaagt 180
tgactaaca actgccttgc tccagttggc aatgatgaac atgacgaatt 230

<210> 27839

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-E11

<400> 27839

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tttcaagact gcgcttgga caagcaaccc atctgctctc cgtgaaactg ttgttgaagt 120
cccaaagtgc tcttgggagg atattggtgg gctggagaat gtcaagaggg agctccagga 180
gactgttcaa tatcctgtgg aacatccaga gaagtctgag aagtttggca tgtctccatc 240
caaaggagtt ctgttttatg gtcctcctgg ttgtggtaaa accttgttgg cgaaggcaat 300
tgccaacgag tgccaggcta acttcatcag tgtcaagggt cctgaattgc ttaccatgtg 360
gtttggtgag agtgaaacca acgtccgca aatttttga 399

<210> 27840

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-B2

<400> 27840

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tccaagcatg gtacatggac gacagtgaag aggaccagag gcttcctcat catcgcgagc 180
ccaaagaatt catccctctc gacaaacttt ccgaactagg aatattaagc tggcgcctaa 240
atgctgatga ttgggagaat gatgagaacc tcaagaaaat tcgtgaagcc aggggttact 300

cttacatgga catttgtgat gtgtgcccag agaagttgcc aaattacgag gctaagataa 360
agaatttctt tgaagaacac ttgcatactg atgaagagat acgatattgc cttgagggta 420
gcggctactt tgatgtgag 439

<210> 27841
<211> 442
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-030-Q1-K1-B3
<400> 27841

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gcacaggtag gcccgatatgt cttcaggggtg ttccgccggg cagggtcgcg tcctgccggc 120
tgccgtgtag cgcggggggc gggcagggcg gggtaaggt ccctgcgaag ctggcggagc 180
tgtggtcggc ggcgaagagc ggccttccc tggccgtgct cgcgggtgtg gcggcggcg 240
tgccgatata caaggtcggg tccagtctcc ttgccggcg ccatccccc cccgctcggc 300
tgaggccca gacggtcccg tcgtctccag tcccgagcc ggtgcagggt gcgagataa 360
cggaggagga actacggcag tacgacgggt ccgacccga gaaaccgctg ctgatggcca 420
tcaaggggca gatctatgac gt 442

<210> 27842
<211> 433
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-030-Q1-K1-B4
<400> 27842

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actgtatata ttgctagata gggaatgtat ctgagctttt gagtaactta gctattagag 180
cattctgact tattatatga aagttgacat cactaacaac tgcctaacta gtaggctaata 240
aacatcataa ttgcttgtaa tttgcaggaa tataaaattt cttggaatta ccatttgaag 300
tataatatgg aaactgcttg tttaatttgt ttgtatttat gaagaccttt tgtacatagt 360

taaatttgat ggagaaatga tgcactacag cactagtgtg atagactaat agtagcttac 420
 tgccaaagca cca 433

<210> 27843
 <211> 310
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-B5

<400> 27843

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 gcgcgcgcag gagccgtgct tctgccagta cgcgcgcaac ccggcgtaca gcagctacat 120
 caacagcccc aacgcccgcc gcacgctcac ctctcgcggc atcgccgtcc cgagctgcta 180
 gggcgctagc tcgtgcctcg tgggtgtgggt gaataaaaag atgcatgtcg atctctgctt 240
 actgttatcg tatctgtagt acctcggtg atatgaacaa tatgtattat ttaccaagag 300
 cggttgtgtc 310

<210> 27844
 <211> 385
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-B6

<400> 27844

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 gaagaatatg tagtggtggt cgcaacggac tcctgcggct ttgggatgca actacaagca 120
 tctaggactg atagatgttc atgtgaaaag gcaattgacc atgatgttgc atgccatttt 180
 ccttttagct aggaatttat gtgctattta gaggatgcga aaggagccgg actttgttct 240
 actgtttctt tctcatctaa aaaaccctgc ccagttgagt atatgtttga cgtcgtgtaa 300
 aattttgttt atattttcgg gttcagatag ccttacgtgg ctacgatttt gtgagaacta 360
 tgagaaactt gggaagttct gtact 385

<210> 27845
 <211> 438
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-B7

<400> 27845

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ggaaggctag ggtaggggtc ccagctcccc gttgcctggg cgagcctagt gatggccgcc 120

cctgccccct ccggtccttc tagtgccgac gcctcacctg acccgctgat gcagctgccg 180

tcgccgttcg cggagctcgt caagggcccc tacggcctcg agaaggctcg gcttctcggc 240

tctcgcaact gctgagccga gatttatctg tatggaggtc aagtaacatc atggaagaat 300

gacaatgggg aagacttgct tttcctcctc agcaaggcta ttttcaaacc tgcaaaagct 360

attcgtggcg gtataccaat ctgctttccc caatttggat cacatggaaa tcttgaacaa 420

catggattcg ctaggaac 438

<210> 27846

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-030-Q1-K1-B8

<400> 27846

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gtcttgctcc gatcacgagc tagctgaggt cgacgatggc ggctgtgctg aacagcagga 120

agacgccgca ggtgggtggcc gtgctgggtg tggtggcgct gctggcttcg tccgcgtcgg 180

cggcgatcac ctgcgggcag gtggggctcg cgtggcgcc gtgcacccct tacgcgacgg 240

ggagggccag cgcgctcccc tcgtcgtgct gcagcggcgt caagagcctc aacagcgcgg 300

cgcggaaccag cgcggaccgc caggcggcgt gccgctgcct caagagcctc gccaacagcg 360

tcaagagcgt caacatgggc accgtcgcca ccatccccgg caagtgcggc gtctnctcg 420

gattcccat cagcatg 437

<210> 27847

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-B9

<400> 27847

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gtaggtatc ctttaaggta tgttgtaatt cctctatgaa gaatagactt tagaacgttt 120
gattctatct atattgaacc aactatagct tccttctaga tttcaggaaa ccattatctt 180
gtgccaaaca atacttgact ttatatagga tagaattggt gtttatgatg atacttaggt 240
aactgctgta cttgggtattc agtgtgtaat atttttgttg tgtggattaa tgttttaagt 300
gctttatgtc tcattagtgt taagcttagc tcacctgct tcgtcgtagt agttatttaa 360
caataaggat ctctttaaa 379

<210> 27848

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-C1

<400> 27848

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ctgtggagct ggagtgggta agggcttcca gcagggactt tacatgggca acggtgggtg 120
cgccaatggt gtcgcacctg gctacaccaa gggtgatggc cttggcgctg agattgttgg 180
caccttcac ctagtctaca ccgtcttctc ggccaccgat gccaagagga atgccaggga 240
ctcccatggt cctatccttg ccccaactgcc aattgggttc gcggtgttcc tggccacct 300
tgccaccatc cccattactg gcaactggcat caaccagct aggagccttg gcgctgccat 360
catctacaac agggatcacg cctggaacga ccattggatc ttctgggtcg gcccttcat 420
tggcgc 426

<210> 27849

<211> 258

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-C10

<400> 27849

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 aaaaagttaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataa 120
 aaaaaaaaaa aaaaaaaaaa aaataaaaaa aaaaaaaaga attaaaaaat aataaaaaaa 180
 aaataataaa taataaaaat atatcacact aaattaattt cattaacctt cgtattacaa 240
 tttaacatat tggaaaaa 258

<210> 27850
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-C11

<400> 27850

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 ccgggtccaa gtatatcaac gtaacaaggt ggtttaatca cattgatgcg ctctgaggc 120
 tgaacggaat tactgcagag ggccaaggtg ttaatgttga atcgtcagca gttgcttcag 180
 ccccaactcc agatgagact gaagcacagg cccagttgc tgaggaggac gacgacgatg 240
 atgttgacct ttttggtgag gagaccgaat atgagaagaa cgctgctgaa gagcgtgctg 300
 caactgccaa agcttttggc atgaagatag aatcttgga gtcacatcagtt ttacttgatg 360
 tgaagccatg ggacgatgag actgacat 388

<210> 27851
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-C3

<400> 27851

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 tgcagaagaa tctacggcaa tcagcattgt cccgggggtca tttgttttgg gcacgtggac 120
 ctgataacgc tggctattat aattcaagac cacatgaaac tggctttttt tgtgatggag 180
 gcgactatga cagctactat ggacgttttt tccttaactg gtactctgga gtcctcatgg 240
 atcatgtgga tcaggtgctg tcgcttgcta ctcttgcatg tgacggagca gaaatagttg 300

tgaagggtcc atctatctac tgggtggtaca ggactgcgag ccacgccgca gagctcacag 360
 cgggggttcta caacactacg aacagagacg gatactctcc agttttcaga atgctcaaga 420
 agcactctgt gatccttaa 439

<210> 27852
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-C4

<400> 27852

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 ttgggagcat agggagcgtc atccggaaaa ggaaggaatg gtacctgtat gagcctgttg 120
 ttgatgtggt agctaatac gaagacggga aagaggaggc taataattct agcaggccga 180
 agaaaagagc cgacgaagag aaagctgcaa gccttcagtc cctttgaaca caagctgctg 240
 atagttctaa ccaaggaggg tttctcttgc caatcccagc agatgcctgc ctttgacatt 300
 cgtcgtagga tggcttcac atagctacat atttgtatgt aagcgggtgt agagcgtgtt 360
 attcctgatg aaggctcggtg ctgccctgtc acctagtctg acgacacccg tccagtac 418

<210> 27853
 <211> 364
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-030-Q1-K1-B11

<400> 27853

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 gtaccgcccg gtgaaacaag cgctccgacg cctcaaggaa tgcggagcga tgaggcggct 120
 ctcaggcact gacgtcgccg gtcagcgcga gctgcgcgga gaccgaacct ggcacgcgaa 180
 gcacgtcgag gaccggcgga ctcgtgcac cttgcttctt cttgctagtgt gtcgtacggg 240
 agtttgcact ttgcagatag ctagctagct agtagctagg ggatcaggca tgggtgaggg 300
 cgaggcgggtg gttaagggcg gtgtgctgta nggccgctac aagctcagtc gcgtgctggg 360

tcac

364

<210> 27854
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-H6

<400> 27854

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gcggcgcggc gcaccacccg cgcctgcgca ccgcgctcgc cgtctcctcc gacctgctcg 120
ctgggaacaa ggccgcgcag gccgccgccg cgcacccggc ggttaccggg gaagaggcac 180
tgagagctgta tgaggacatg gttcttggcc gtgtattcga ggacatgtgt gcacaaatgt 240
actaccgtgg caagatgttt ggtttcgtcc acctttacaa tggccaggag gctgtctcca 300
ctggcttcat caaacttctg aaccaggctg actgtgttgt tagcacatac cgtgatcatg 360
tccatgcgct gtccaagggc gtcccggcac gttctgtcat ggctgagctc tttggcaagg 420
ccacaggctg ctgccgtgga cagggtg 447

<210> 27855
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-H7

<400> 27855

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gtgactggga gcccaatgcc tgtgcaatcc agcacacaca gcaacatgta atccgtgttg 120
ttgcaactga ttcacgagat gaatgaacat cccgaagcac ccaagtcagc cagttgtcca 180
accgggcttg ttctgcaact tgctgtagtt gtttatgtat cagagctacc ggtgccgggt 240
accgcagcag ccgtgctttt gtcggccctg atgggtgcttg ttgcagtacc agttatcccc 300
taaggcaggt gacagaaact gcggaatagt tcttgtttgc attgacgtga cagcactgta 360
atcttaaaca tcgtaccata gtcctttcta tgacaaaggt gtggtttctg atgtctgcag 420
taaagtatct ggacttgggg cgt 443

<210> 27856
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-029-Q1-K1-H8

 <400> 27856

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 gaacagggcc tccagatgct aacàatcttc aagagccatg aggctgagac aacaattgtg 120
 gaagatttcg acttctatga gcagcgggag aaagccttgc aggagaacag acgtcaacag 180
 catgctgtca gcaccgatac tcagaaactg gtggatacca aggctcaaga tctgtggcc 240
 gacatatcag atgcatttgc caaggccgtc cagttgaaga atactgagaa cagtgggaca 300
 acccccaaaa ctgaggggtgc ttcagctgaa aagggatccg ctgccaccgc caaagttgaa 360
 agaagtgcaa acctgaacac aagccctgtg gaggaaagca ggtgattcgt tttccttcta 420
 t 421

<210> 27857
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-030-Q1-K1-A1

 <400> 27857

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 aaaacaaaaa gcggagaagg ccgttggttg ggctagaaac cactatctgt catcaacaac 180
 tcttccttct atcaaagggtg acaggttaat cattccccgt gagagtctgg atatatcaat 240
 cgagaggctg aaggaacagg gtataacagc taagaaatcc tctcaaaatc tgaaggtttt 300
 ggctaaagat gagtatgagc gcaatttcat ttctgctggt gtgcctccga atgaaattgg 360
 agtgaaattt gacgacatcg gtgcacttga agacgtgaag agaacattgg atgagcttgt 420
 tacac 425

<210> 27858

<211> 86
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-030-Q1-K1-A10

 <400> 27858

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 gggaaaagaa aaaaaaaagg tagcat 86

<210> 27859
 <211> 392
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-030-Q1-K1-A11

 <400> 27859

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 cgccgcgatg tctcgccgct atgacagccg cactacgata ttctcgccgg aggggcgtct 180
 ctaccagggtg gagtacgcga tggaggcgat cggcaacgcc gggtcagccc tcgggatacct 240
 agcggccgac ggcgtggtcc tcgtcgccga gaagaagggtg acctccaagc tccttcagac 300
 ctcgcgctcc gtcgagaaga tgtacaagat cgactccac ctggcggtgc ccgtggccgg 360
 gatcatgttc gacgcaacat tctgataaca ac 392

<210> 27860
 <211> 394
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-030-Q1-K1-A12

 <400> 27860

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 caactgttcc accaccttta gcctcatgtg aagcgaaacg aacaaaacac aacattagag 180
 ctaaccaacc tgaaagtgc caacaaggaa tgaaacaggc atatgaaagt ttgactgttg 240

gttttgaag gacagcctct gctctcattg gcaaccctat taaagtttat aaccgagggg 300
 cgggtgttgg atcagttcta gctactgcaa tctgtggagc accagctgct gcagtagctc 360
 cagtctcggc atctgctcgc gctttacatt atgc 394

<210> 27861
 <211> 443
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-030-Q1-K1-A2

<400> 27861

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 ggtattttac gtaattgaat tgaacacttg atctctgatt agcacatgga tggaaacaca 120
 tgtctctgct ctacgtcaga tgatctccgg tgccaagaag aaggaactct tctttgggat 180
 gccttaccgc cagggcgacc agccagatcc gggcgcgggc accgtcgaga gcatcccgca 240
 caaccagta cacttctgga gcgggcagcc gaggcagccg aacggcgagg acatgggcaa 300
 cttctactcc gccgcgcgcg acccgctctt cttcgcgcac cacggcaaca tcgaccgctt 360
 gtggtcggtc tggaacggcc ttcgtcccg cgtcagcgac ttcaccgacc ccagctggct 420
 ggacgccagc ttncctcttct acg 443

<210> 27862
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-A3

<400> 27862

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 ggcgttgctg cgggtgcatg gcgtcgtgcc tcttggcgct ggtcctcatc gtggccttcg 180
 tctcgctggt ggtgtacctg gcgtcgcgcc cctcgaagcc gtccttctac ctgcaggacc 240
 tgcagctcgc caggcccatc tcgtggggc acccgctcgt gacggcgctc gcgcaagtga 300
 cgctggccga ccgcaacccc aacgaccgcg tgggcatctt ctacaagcgc ctggacgtgt 360

tcgtcaccta ccgcgacgag gccgtgacgg tgcccgtgtc tctgccgccg cagtaccagg 420
gccacc 426

<210> 27863
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-A6

<400> 27863

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gttcgtgaag accctgaccg gcaagactat caccctcgag gtggagtctt cagacaccat 120
cgacaacgtc aaggccaaga tccaggacaa ggagggcatt ccccagacc agcagcggct 180
catctttgct ggaaagcagc ttgaggacgg gcgcacgctt gccgactaca acatccagaa 240
ggagagcacc ctccacttgg tgctgcgcct caggggagggc atgcagatct tcgtgaagac 300
cctgaccggc aagactatca ccctcgaggt ggagtcttca gacaccatcg acaatgtcaa 360
ggccaagatc caggacaagg aaggca 386

<210> 27864
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-A7

<400> 27864

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ccatcgacaa cctcaaggcc aagatccatg acaatgatgg cattccccca caccagcatc 180
gtctcatctt tgctggaaag cagcttgatg acagtcgcac tcttacctac tacaacatcc 240
agaacgagag cacccttcac ttgggtgctgc gcctcagacg atgcatgcac atcttactga 300
agaccctgac cggcaagact atcacctcgg aagtggattc ttcagacacc atcgacaatg 360
tcaatgccaa gatccaggac aaagagtgc tcccaccgta ccagcagcgt ttgatcttca 420
ctggcaatca gctggatgat g 441

<210> 27865
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-030-Q1-K1-A8

 <400> 27865

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 gctgctcact tctggcttta gcctcgacga tcccaacacc tttggcagcc gcatccaccg 180
 catgctcaag ctgggcctga gcatcgacga ggacgaggag gctccggagg ctgacaccga 240
 catgccccct ctggaggatg acgctggcga gagcaagatg gaggaggctg actaagctgg 300
 gtttattctt atggaggaaa gagagagaac atcgggtctg ttctgtgggt cttaccactt 360
 atgctattat gcaatctgtt gttggtatgc tagtgctact attgtctctg ctgtcttcta 420
 gttaat 426

<210> 27866
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-030-Q1-K1-A9

 <400> 27866

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 gacgatggcg tccggctggg gcatcaacgg gaacaagggc cgctgctacg acttctggct 120
 ggagttcagc gagtgcata ggcgctgccg ccagccctcc gactgcggcc tcctccgcga 180
 ggactacctc gagtgcctcc accactccaa ggagttccag cgcaggaaca ggatctacaa 240
 ggaggagcaa cgtcagatca gagctgctgc tcgtaaggcc aaggaggaag ctgaggggtgc 300
 ccctgctgtt gcagcacacc attagtctac ctggctatct tntgcgttga tgttttctgt 360
 taactcatct ttgggtcaat tatgatggct agggc 395

<210> 27867

<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-B1

<400> 27867

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tgagaccctg gccattaccc agagtgtcat ctttgtcaac acccgccgca aggtggactg 120
gctcactgac aagatgagga gcagggacca caccgtttct gccactcatg gtgacatgga 180
ccagaacact agagacatca tcatgaggga gttccgggtct ggctcctccc gtgtgctcat 240
caccactgac ctgcttgctc gtgggtattga tgttcagcag gtgtccctgg tcatcaacta 300
tgatcttccc acccagccag agaactacct gcacgtattt ggctgtagtg gtgcttttgg 360
taggaagggg gttgccatca actttgtgac ccgcgacgac gaacgtatgc tgtttgacat 420
tcagaagttc tacaacgtgt tgatt 445

<210> 27868
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-B10

<400> 27868

ctccatgtta tgacacagaa acagccatca acagaccgtg gatcatcaga tgttcactgg 60
ggttcgtcaa atgtgtttga tcctcctggt gaaggacatg ctgcaaacta cagtgtgaat 120
gggggtgtct cagtttgtca taatgggtgc aatgggcaga atggaagtag cgctgtcccc 180
aatattgcaa gaccaaacad agagagtatt aatggtacca tgagccaaaa tattgccgga 240
ggtaggcatt taagtgggag tgggagtggc aatgacatgt atcagaatcg gttcctgcaa 300
cgagaagctg cattgaacaa attcagactg aagcggaaag atcggaactt tggtaaaaag 360
gttcgctacc aaagc 375

<210> 27869
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-H5

<400> 27869

cttgctctgt gaaattgata gtttgaagac acagcaactt ctcgataggc cttgcagtgg 60
catcaatggc ttagtttcat cctttgtttc acggctaagg gaagagaact cttctcgaga 120
gcataccatt ttaagaactg ctcaaaagct taagtcattc tcgtttaaca agttctcagc 180
aaacggctac catgatttcc tgccatcgcg gcttcgtccc aagtttcaga acattgatgc 240
caacgagtgt actttctctg agattctttg cctaatatgt ggaagcccgt tcagtgaatc 300
agagctcctg aatttggaac acacaaagct caaggctcag aagaaaattg atctttatac 360
tgcccattgt tgtcaaagtt gccatttcca gattctccca gcagctacag atatgtatgg 420
acatttcttt tcgctactac cgaaattttg g 451

<210> 27870

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-G2

<400> 27870

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gcggagtgtc attatacgac tgcgcggagt gtatgaaaag gatgtctaaa gggtcgctca 120
tcaaaacact gattgtgtac gcttacgacg ctcaagcaca tgagatcaca tgaacactga 180
tacgaccttc tacatagacg ctactacga actatatgct caatatgtaa ctactgtgca 240
taattcaacg acatttgtac attaaagagt gacaatcaca cactgatact ctcgcctcta 300
ttgctgcagt ctggcaggaa cataagggac ttcctaacta atatcagggtc tcgcattaaa 360
tcactctggg gacgtcgaca tctgcctgat atgcttcaca 400

<210> 27871

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-G3

<400> 27871

aggacggcca gataataaga ggtttgggtg agtgagcccg agcagtcagg gtgacgtctc 60
 gtaggaactg tgtatgctgc ttagcctctg ttgttgtaga ggcttgatcat ttgtttgggc 120
 tgcgcttacc ggtagggcgc gccttgatcg gtgaacgatg atgggtgtatt atgagaggga 180
 tttcttaagg ggttcacgtt tgggtgtgctt ggggttgcttt gatagaaaca tttgggagag 240
 gtttatcgcg cctgctctgc tctctcatgt aactccagat tgctgagctg gcacctgctc 300
 tgctctctca tgtaatgtaa ctccagattc ctgagctgct atgttttttt ttaaaaaaaaa 360
 aaataataaa aaaaaaacta aaaacaaaaa aaaaaacata ttac 404

<210> 27872
 <211> 433
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-029-Q1-K1-G4
 <400> 27872

ctggaagtta tagggttggt gatgttatga ccaaaaggga agagctccat gttgtgaaac 60
 caacgacttc agttgatgac gcccttgaga tgctgggtgaa gcataggatc tctggctttc 120
 ctgttattga tgatgactgg aatttggttg gcgttggtgc agattatgat ttattggcac 180
 tggatacaat atcaggagct ggaccggctg aagcagacat atttctgag gtggatagca 240
 cttggaagac atttcatgag atacagaagc ttttgagcaa aaccaacggg aagggttattg 300
 ctgatgttat gaccccgagc cctctcgtgg tgcgtgaaac aactaacctt gaagatgctg 360
 caaggttact ccttgtgact aagtaccgca ggcttncagt ggtcgatagc tcaggcaaac 420
 tggttgggat cat 433

<210> 27873
 <211> 334
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-029-Q1-K1-G5
 <400> 27873

cccactcgtc cggttgggtc ttgctcaaac tgtcttgatg aagggtttct gttgggacag 60
 gttcctgaaa ttatgttttg ccctaggata atcttgcagt tatggaacct tggttatattg 120

tatcctgcaa tttgtttctt gcaacttata agagtgattt tatttgatga gtcttagaaa 180
 aaaatacatt aaaagaaaac acacataata tcaaaagcat ataaaaataa tatagactac 240
 aattactacc actataagat cattacacaa catgtctgcc aaaatcatga cgtatatgac 300
 aaaaaatgtg gctctcgcta ttgatcacta acta 334

<210> 27874
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-G6

<400> 27874

cccactcgtc cgattgcgaa caacttattg taatacacia ctactatatt ttgtacaatg 60
 gttacttttg tcttctgtgc aatgtctgct atgctcctaa gatagcatca gccgaccact 120
 tctgtatgta tatatatgtt aaaattttat gaatataatc cagataaaga cttgctcaaa 180
 aaaaataaaa aaaaagaaaa caaaaaaaag caacaagaaa aagaaataat tctaagaaaa 240
 acaatgataa aacataaaat ggctacaaaa atcactgact ccctgccaaag ttacatggct 300
 tgataacatt ttgtcaacgc gaatctgcat gaggatactt cacctagact tacctctgat 360
 tcagcagaca aaaactggta cactctgctt gactctcttt agttcgctaa c 411

<210> 27875
 <211> 385
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-G7

<400> 27875

ttcactcgtc ctatcactcg tgacataaaa taatacacia aatactatta caataactaa 60
 gggaaattta gtaaaaaataa acaacgtatg ttgtcgttct attatatgat attatgttaa 120
 tgtatgacat attctattta ttaaattttt ttgagtatga tctaaattaa ataattctat 180
 gaataacatt caatatactg ataacgtgaa aagcatgaag attacgtatt tattctcata 240
 tcatcatgta tatcttttaa atggttgcat aatttctaact actctgaaaa ttacatgtat 300
 tctcaacatt ttcgctaacc gaatgtgcat tgtaataatt catgtagagt tacatctaact 360

tcagcatata aatacgttta cacta

385

<210> 27876

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-G8

<400> 27876

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ggaaagggtgg tcattggaat ggatgttgct gcttctgagt tcttcggtga gaaagacaag 120
acttatgata ttaatttcaa ggaggagaac aacgatggct caaacaaaat ttcaggcgac 180
agcctgaaag acctgtacaa gtcctttggt tctgagtacc ctatcgagtc gatcgaagac 240
ccatttgata aggatgactg gagcacttat gccaaactca ctgatgagat tggacagaaa 300
gtgcagattg taggagatga tcttctcggt accaacccca ccagggtcgc caaggccatc 360
aatgagaaga cctgcaatgc tctcctcttg aagggtgaacc aaatcgggtc tgtgaccgag 420
agtatcgaag ctgtcaggat gtccaagcgc gccggat 457

<210> 27877

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-G9

<400> 27877

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tggtggatga ccctgaactt gagaagttgc acgcggagag aattgctgcc cttagaaaag 120
aggttgagaa gcgtgaagtg ctaaaaaggc aagggtcacgg tgaatacagg gaggtaattg 180
aaggggactt ccttggggag gttactggca gtgaaaaagt catatgtcat ttctatcacc 240
gtgaatttta ccgttgcaag atcatggata agcatttgaa ggcccttgct cctgtctatg 300
tggaacaaa attcatcaag cttgatgctg aaaatgctcc attctttgta gccaaactgg 360
caatcaaac cttgccatgt gtaatatgtg tcaagaaggg tattgctggt gaccggttag 420
ttgggtttca agatctcgga agtaaagacg att 453

<210> 27878
 <211> 451
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-029-Q1-K1-H1

 <400> 27878

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 cgcggtgcgg aggcgcgaca gaggcggtgt cgactccgac ggactcgag ccaccggtgg 120
 agacgcccc cggcgcact cctccaacgt tcatagttta agggcttgat ttggataatt 180
 agtcatcaac agaagtgata aaaaatgggtg gttcttgcag catcaatcgt ttcaaagtcg 240
 ggaaaagcac ttgtttcaag acagtttggt gacatgtctc gcataagaat tgaaggatta 300
 cttgctgcgt tcccgaaact ggttggaaact gggaagcagc acacttatgt cgaaactgaa 360
 aatgtgcgat atgtttatca acctattgaa gggttatatc ttctacttat cacaacaag 420
 cagagcaata ttcttgaaga tctggacact t 451

<210> 27879
 <211> 450
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-029-Q1-K1-H10

 <400> 27879

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 ggcggcgccg aacctgtcgg tgggcgggta cgaggtgatc gacgcgatca aggcgcagct 120
 ggagagggcg tgcccgggcg tgggtgctgtg cgccgacatc gtggcgctgg cggcgcgcga 180
 cgccgtgtcg taccagttca aggcgtcgct gtggcaggtg gagacggggc ggcgcgacgg 240
 cacggtgtcg ctggcgtcca acacgggggc gctgccgtcg cccttcgcgg gcttcgcggg 300
 cctgctgcag agcttctcgg accgggggct gaacctgacg gacctcgtgg cgctgtcggg 360
 ggcgcacacc atcggcgtgg caagctgctc cagcgtcacc ccgcgcctgt accaggggaa 420
 cgccagcagc gtggacccgc tgctggactc 450

<210> 27880
 <211> 449
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-029-Q1-K1-H11

 <400> 27880

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 ggcagctgga ggaggacgcc gacaaggtga acctgtgggt cgaggtgcct gggcagtcca 120
 aggaagacct caccgtggag atcgacgaag acgtgctcgt catcaagaag aggaaggagc 180
 tgggtgggcca gcggagccct ggcagtggcg tcgcagagta cggctcccag tcccagcagc 240
 agagcaggag gggcaccgca gatggcaagg acccgctgcc ggcggcacag caaggccagg 300
 gcggcgaggt ggtctatgcc cggatgctcc tcccggcggg gtacagcagg gatggcgtgc 360
 aggccgagct caagtccggc gtgctcaagg tctactgctg caaggtcacg gagcgagcgc 420
 gcatgaagat cgacgtcccc attcaagtc 449

<210> 27881
 <211> 352
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-029-Q1-K1-H2

 <400> 27881

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 tggcgggtgca aaagggccga ccgatgtcga ggttcaatgc taccgactgc gtgcctccga 120
 cggagacgct ctaccatcgc gctacttaaa cgcaaataac tgaccgtctt gatacaacta 180
 attaactgtg aacacactgg atttaccaag ctgaatctcg cagcatcaaa tgcctcatta 240
 gtccagatga gcacttggtc taagacgcct tgacgacatg tctttcataa gaattgaaca 300
 gatcactatg ctgaatggca aaaccctttt aaactggcat aaagcacact ta 352

<210> 27882
 <211> 298
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-029-Q1-K1-H3

<400> 27882

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gcagggccgg agcccaggga tcgagactga tcagcgcttc gagacgccat gatcgtagat 120

gatgagtgtc gtatgctgaa ggatgagatc cataagctcg gccagcatta acaccgatgg 180

ctactacaag gtcaagttcg gcgctctatt taacgacgat cgggtgtgcta atatttttga 240

agcactagtt ggtaccttga gggccggcaa gaataggaag atcttgacct acgaaagc 298

<210> 27883

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-H4

<400> 27883

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cgaacggtgt atcgtggtgg atcgatgagg tgcggaggtt ccatgatctg gtcccgtgg 120

atggcctctg gattgacatg aacgaggcct ccaacttctg cacggtcaag tgcacgattc 180

cgaatacgca ccagtgcctt attcctgaca ccaagacacc atggctctgt tgcttggatt 240

gcaagaacct tacaacaca ggggtgggatg agccgacgta caagatcaac gcttgcggtc 300

agactgcccg tctcggttc aacaccatct gaaccagcgc tacacactac aacggcatcc 360

tgtagtacaa tgcgcacagt ct 382

<210> 27884

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-G12

<400> 27884

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cccctctcct ttcattccct gtcccgtgga cggaatggc gggcaccgcg cggcttcttc 120

ctgccgcggc gggcgcgctg ctgctgctgc tctgcatcgc gggcggcgcg cgggcggcca 180

acgtgacgta cgaccaccgc gcgctgggtca tcgacggcgt gcggcgcgctg ctcgtctccg 240

gctccatcca ctatccgcgg agcacacccg acatgtggcc ggggctgac cagaaggcca 300
aggacggcgg cctggacgtc atcgagacct acgtcttctg ggacatccac gagcccgatga 360
ggggacagta cgacttcg 378

<210> 27885
<211> 436
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-029-Q1-K1-F11
<400> 27885

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ccatgggcgg cgggtggcgg ggcgtgctgc tggatgatgt ggcgggcgtg gcgtcggcgg 120
ccgtgtacga ggtgggcggc accattgggt ggaccgtcat gggcaacccc gactacgccg 180
tctgggccag ctccaagcag atcgctcgtc gcgacactgt tgtgttcacg tataacaagc 240
agttccacat cgtgctggcg gtgagcaagg cggactacaa gaactgcacg gtcaccaagc 300
cgacggacac ctggtccacg gggaacgatt ccgtcgtcct caacaccacg ggccaccact 360
acttcctctg cggctaccgg ggccactgcg ctgccggcca gaaggtggac atccgcgtcg 420
cctactctgc tgcccc 436

<210> 27886
<211> 320
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-029-Q1-K1-F12
<400> 27886

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acaataaaaa agtaatctca gcaaataata atgaataagg aggatgcaat gacgactagc 120
tgaacaggac taaaagccaa gcaactcatc ttgtaaacat taactaagct accccaacta 180
caaacatctt ccattcatag atgccgacaa gactatactt agagtattgt gtaccttgat 240
aataccatga gaaagggttaa cattactgag ctgaagaaat tgctacgagc ttagtcatgt 300
gtatagatcg atgtatactc 320

<210> 27887
 <211> 348
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-F2

<400> 27887

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 tgatgcgatt atgactgcac tgtccctcat gaagcttata gaggccttct taaacgggtt 120
 aactgataaa tattctggtg agtaacatgg tcttggcttt gatgctgtca agaccaccta 180
 tgctcaatgt gtcattgatt attcaattaa agatgaacta tttatgaaaa ttgagtaatc 240
 tgattggagt cttcgtctga ctgatctcaa aggcatactt ggggtattga cataacggat 300
 ttgatcacta ttttgctaac caaaaatgcc agtcgctatt tgagggtcc 348

<210> 27888
 <211> 460
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-F5

<400> 27888

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 gtagtcagcc actgggtccg gccctagggtg taccgctgt tcgcggaac tgcgtgggtc 120
 gtcggcatct gcggatatca actctttcgg aacatcacccg tctaccagga agtcagggtg 180
 aactatgcat gtagggctac tcgtgtgctt gagaaccata aggaggggag acgtttcacc 240
 atgcatagcc taagaagctt tgtgcacgac atgactcctg agatcatgcc tgcacttaac 300
 aagttcttta ctgaccctaa ctgaatcatg ttgattgaca tactactact actactactt 360
 gctactgtgg atgttacact ttgctgtcaa ctcaatatgt tgtggacatg catgacctat 420
 aaaagtactt tgagcgcttg gtgatgactt ggtctatgta 460

<210> 27889
 <211> 458
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-029-Q1-K1-F6

<400> 27889

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gaagaaaaag ttgatgagac accgtctgtt gttgctccag cggctgaaat tatgccactg 120
caagacatca acagcgaaga aaatgctttg gtgaatgatg tggaagagag atccaaagaa 180
gaacattcat ctactgataa cctgaaaggc agcaagagga ggtcttcatt ctcagctaaa 240
cctgaatatc cagaaaatgg ctccaaaaat tctccagccc tgccaagcta catggctgct 300
acacaatctg caaaggcgaa actgcggggg aatagttcac caagacttag ctctgattca 360
gcagagaaaa acgggttcac tcgtcgtcac tcccttcctg ccnctaacaa tggtaggata 420
atttcacatt cttcacgtac gcataggcca acccatgc 458

<210> 27890
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-F7

<400> 27890

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gaagaaaaag ttgatgagac accgtctgtt gttgctccag cggctgaaat tatgccactg 120
caagacatca acagcgaaga aaatgctttg gtgaatgatg tggaagagag atccaaagaa 180
gaacattcat ctactgataa cctgaaaggc agcaagagga ggtcttcatt ctcagctaaa 240
cctgaatatc cagaaaatgg ctccaaaaat tctccagccc tgccaagcta catggctgct 300
acacaatctg caaaggcgaa actgcggggg aatagttcac caagacttag ctctgattca 360
gcagagaaaa acgggttcac tcgtcgtcac tcccttcctg cccctaacaa tggtagata 420
atttcacatt cttcacgtac gcaaaggcca acccatgctg g 461

<210> 27891
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-F8

<400> 27891

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tacaaactgg atccaacttg gctgagtcgg aggaggtctt cgcaggatcg tgaccaacgc 120
cggacatggt ggctgatgcg tcggaggagt ctgagacggc tactgcggcg tggcacaaaa 180
tcaagaggga gtcgcttggt tctcttcgtc atagctgggg gaggtagtag gtagcttact 240
tctttggtta cctcggccac aaatgcttgg acaggggtgc ttttctcaag cgttgacgta 300
tcggtcatcc ttgtctacaa tgtctcatta gtaaggatga aaacgatcgg taaacattaa 360
aaccattttc gttttcatat ttttcctcaa aaatgagatc gaaaacggta acttcagaaa 420
cgaacacgac atcggttaatt cggaacatc gaaaaca 457

<210> 27892

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-F9

<400> 27892

cagtactggt agagcatgat gctgtactgg aatgtgctgt ccttggcttg cctgatgaag 60
gctatgggga gggtatatgt gcaataattg tgcctaagga ggatgcaaag aaaaaggctg 120
gacaggactc aaagccagcg ctaaccttgg aagcattaac aagttggctg aaagataagc 180
ttgtccata caagattcca acaagactat acttgtggga ttctcttcct cggaatgcca 240
tgggaaaggt taacaagaag gagctgaaga aattgttagg agcttagcca tgtgtataga 300
tgtatttata tcttcatttc cttcttaaag tttagcaagt cgggctcatt atattgatta 360
gcgaataagt gctttcggtta ccatggacca ataatcttcg aaacggcccg agttatactg 420
cgcacacatt tatttatcag aaaag 445

<210> 27893

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-G1

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taagacatcg tcgccaacat caacttcaac ttcacccgct acctctgcat ctagcacaac 180
taccacattg taaagaccga cctgaccgtc aatatggata atgaaaagct ccgcgtacgc 240
cacgaccacg acgtacgtca aagcaccata cacagcgata acgactgaca tctggtatcg 300
cagtacattt cacgcacacg tattctggct acatcgacga ttcataccat ctgctgctga 360
ttgtgcgata cactgctact atgcatacat gtatcgtgct actat 405

<210> 27898
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-D7

<400> 27898

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tgagaattta agttaagtga aatcgattca gggttttctt ggtttcagtt tctaaaaaaa 180
aaaataaata aaaaaaaaaa aaacaaaaaa aaaaagaaaa aaaaataaca agaacaaaag 240
caaaaaaaaa aaataaaaaa aaaacgaaaa aagaaataaa aagggggggc tcttttagag 300
gttcaaagtt tacttacgct tctatgcaat gtgaaaactt ttatatgagg taccttaaat 360
tcaattcatg ggccccgttt taacaagctc ggaattggga aaaccct 407

<210> 27899
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-D8

<400> 27899

cggacgcgtg gggaaaatga cagtcatcat ggccaaataa ccaccaagaa ctacttcttg 60
gcgcgactgg tcgacgtggc acgctctgga gagtcttcct cggctgaggt catttggtt 120
ctgaacatta acagtgactg aaagcctttg gtggatgatg tggatgaaag ttccaaggaa 180
gaacattcat atactgataa cctgataggc aataagagga ggtcttgatt ctgagataaa 240

cctgactata ctgaatatgg ctccaaaaaa tgttctgccc tggcaagcta catggctgct 300
ccacaatctt cataggccat actgcagtgg aatagttgac acatgactta gctcttgatt 360
agtatataaa aacggtttca ctcggttca ctccgttaag ccctctatca atggtgagat 420
aatttcacat ta 432

<210> 27900
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-D9

<400> 27900

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actggttaat cttcagctag gatgggtgggc gcgcctccgc aaggaccaca atgcctgttc 120
tggctacgcg ctgatgaaca atgaaaatga accactgtta cctgcaacag catcagcagc 180
agcatgtgca acccaaaagg agccgtattc ccagtagaa atttgtact ggacagaggc 240
acggttccaa aaggttcggc cctaaaaatt gctctgcaat gtcagtggtc cagcgtagat 300
gatgatgatc gcttctaaca tagtctataa aaaatgcata ctggagattt ggtactagat 360
aacaagagga ccttgagtac cgagtttttt ccggtgaaag attgatgggc gatgccacag 420
cctgaagacg aagaggatgt aaagaaaa 448

<210> 27901
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-E10

<400> 27901

ctgcgcctct acattttctt tctctctgct cctccgcctc gcctgatcc atccaagaca 60
gggatcgcca tgtcggactc ggaggagcac cacttcgaat cgaaggccga cgctggggcg 120
tccaagacct acccgagca ggctggcacc gtccgtaaga acggcttcat cgtcatcaag 180
aaccgtccct gcaaggttgt ggaggtttct acctccaaga ctggtaagca tggccacgcc 240
aatgccact ttgtcgccat agacatatc aatgggaaaa agcttgaaga tattgttcct 300

tcatcacaca actgtgacat tccgcatgtg aaccgtactg agtatcagct gattgatatt 360
tctgaggatg gatttgtgag ccttcttact tcagatggca acactaagga tgatcttaga 420
ctcccaactg atgagactct t 441

<210> 27902
<211> 448
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-029-Q1-K1-E11
<400> 27902

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gacgccaagg ggaagggcaa gcaggcggcc ggttcctctg gcggcgacga cggcggcggc 120
aagggaggca agggcaaggg caagggcaag ggcggcaagt ccgctgacgg actcggcact 180
tgcacctacg tcaaagctag gcacgtattg tgtgagaagc aggggaagat caatgaagct 240
tataagaagt tgcaggatgg atggctgaat aatggggaca aagttcctcc tgctgagttt 300
gctaaggtag cacaagagta ttctgaatgc ccatcaggga agaaaggtag agatcttggg 360
tggttcccgc gtggcaagat ggctggctct ttccaggagg ttgctttcaa cacacctgag 420
ggaactgtta gcgcaccatt caagtcca 448

<210> 27903
<211> 450
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-029-Q1-K1-E12
<400> 27903

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tcaatgggtg ctgctttgca acaggaaagg actgggtccca tgcagggtgc attgaatgca 120
cagcagcagt ccagtagcaa catgatatcc aacaatgcaa tgagtacaat gcagactaat 180
aacaatgcaa atgcgaattc attgcagcag ttaaagcagc aacgtcagga gcatcaaatg 240
atgcaaagtc agcaaagtaa gcagcgccag cagatgatgc aacagataca acaaaagcaa 300
acgcttcaac cgcagctccc aatacagcaa ctaaagaaac aacagcagca agggcagatg 360

cagtttccac agcttcattc tggaaatgat gtgaatgagc taaagggttaa gcaaggagct 420
gcaatcaaat ctggaatgta tcaacagctg 450

<210> 27904
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-E2

<400> 27904

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ggctcagtgg atcaatgttt catggacata aaaaaatgta taacacgtag agcacttata 120
ctggcagagg ctgcacccag gctcaataca ggaccactca ctaatcgta ctgcactccc 180
gatgtcatat tttgttcgtc aggtgacggt gagcaagata cgcaaaagaa tgtggcttct 240
ctccaatgtc tcttctattt ttcgggtctt gtaacttcag gaagcaggtg gatacaacaa 300
cagctgtatt ggacggaact gatgtgtcat gtgcctactt gtttgccata gatgagtcca 360
taacactgca cgatttgtcc atgaatTTTT tcatggaatg tagttcccgt ccaaatggct 420
ctaggaactt catatctata tcaacg 446

<210> 27905
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-E3

<400> 27905

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aagagatgag aaaatcaaata gaaacgtaga cataaaaaaa atagataaac aaaaaaaaaa 120
ctggctctcc gtttaagatg ctccaagttt caatacacgt ccattcacta atagacactt 180
cacttaggga cgcctaattt caatccactg gccatcgttt tcaaacttcg caactgaaaa 240
aaccttgtct tcacccaatt taatagcttt ggatcaaata cctttttgac accatgggat 300
actaacacaa agtgccttac c 321

<210> 27906
 <211> 456
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-E4

<400> 27906

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 ttgcttggac taggagtgtg tggagggcca ctgtctcttc cttggggttt gtacgtgcta 120
 atatgtcaga gaacacccga gaaaccatgc ttgaacgacg tgagcgtatg ttgaagtgtg 180
 aggagagcgg ccttgatagc ttcagtatct cttgtttgtt tgacgctcat tccgttgtgg 240
 gatgaacttg cggaggaact aggtgtaggg cttgtttctt cgttctgaga tgcggtgctt 300
 accgatagaa ttaggcctgt atgtagttca gttttgtgtt gaaatgtagc ttcccacggt 360
 ggaattgttg taaaggtatg tggaatttcc ggattaggtg agcaatgata tcgcttatgc 420
 gagtgtaatg aaattgtgcc aactgccaag tataga 456

<210> 27907
 <211> 465
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-E5

<400> 27907

ggagaagctc cacatggggg gcgaccacaa gaaggaggat gagcaccaca agaaggccga 60
 ggagcaccac aagaaggagg aggggggagca ccacaagaag gacggcgggg agcataagga 120
 aggcacgtg gagaagatca aggacaagat caccggcgag cacggcgaca agtccggcga 180
 ccacaaggaa aagaaggaca agaaaaagaa gaaggagaag aagaagcacg gcgagggcca 240
 cgaccacgac ggcgggccaca gtagcagcag cagcgacagc gactgagatc tgggtgtcgca 300
 gcacaggtgc aacacaagta tgcttgctgg atggaggatt cataccagct gatgctgatg 360
 tagtgtttca ctgggtgtcat gcatgcatgt atcgtgctat tataatcaaa aagaaaaaag 420
 aaataacagt cagggatggg ttggttgcca tgtgatcttg tacac 465

<210> 27908
 <211> 270

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-E6

<400> 27908

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 gcttaacctg atgggttagat atcatacaag atcaattaca tcaacgagct ctgtaagggc 120
 ctactaagc gtcaccataa cggttctactc aacatcattc acgatatcat gaatcctaata 180
 atcattacgc ttactaatag gcatgacatg aaacacatct acaatctcat ctactatcag 240
 acccactact tgctcaacat cttttctcaag 270

<210> 27909
 <211> 461
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-E7

<400> 27909

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 gaagaaaaag ttgatgagac accgtctgtt gttgctccag cggctgaaat tatgccactg 120
 caagacatca acagcgaaga aaatgctttg gtgaatgatg tggaagagag atccaaagaa 180
 gaacattcat ctactgataa cctgaaaggc agcaagagga ggtcttcatt ctacgctaaa 240
 cctgaatatt cagaaaatgg ctccaaaaat tctccagccc tgccaagcta catggctgct 300
 acacaattctg caaaggcgaa actgcggggg aatagttcac caagacttag ctctgattca 360
 gcagagaaaa acgggttcac tcgtcgtcac tcccttcctg cccctaacaa tggttaagata 420
 atttcacatt cttcacgtac gcaaaggcca acccatgctg g 461

<210> 27910
 <211> 460
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-E8

<400> 27910

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aggcaatggg gcactccaac gtctggaact cgcaccccaa gaactacggt cccggatccc 120
 gcgtatgccg tgtctgtgcg aaccctcatg gactgatcag gaagtacggg ctgatgtgct 180
 gcaggcagtg cttccgcagc aatgccaaagg acattggctt catcaagtac cgctgaaatc 240
 aggtgggaat ggaccatgtg gtagaggcga ggttgtagtt gtatttccag taatttagat 300
 gttttgttca gaagtctgct agtaaagact gctacgttta tgatggagaa cttagccatg 360
 ttggtcatgt tggatcatatt gatcatgagt tacctatggt gagcttaaac tatcatgtgt 420
 ccaaccatcg ctgggtagta tgattactgg aatgtatgat 460

<210> 27911
 <211> 218
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-029-Q1-K1-D4
 <400> 27911

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 gtgagtaatc acgtacctag ccgcttgtag tagtcatgcc ctactttatt actctaaaag 120
 atacatttcg ttgcgtaatc atcttatggc taccatagtc atgtgggtcca atatatactg 180
 tctcatatct atattcatgc actggcagaa ctcaatct 218

<210> 27912
 <211> 460
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-029-Q1-K1-B6
 <400> 27912

cggacgcgtg ggcgaggaga tgagtgaatc atgcagaagt ttctttggcc gattaagcga 60
 gtcgttggtta gtctggggaa gcaaattacc tgttgagtca agggcatgct actcgaagat 120
 ggcagaggag ctatgcgcgc ttctgggtgga caccceaagc gagacgctga acctacccat 180
 ggggtgtctt ctgacgatgc tcaacgctcc agttccggac gagagcaggt cgtcgtacct 240
 gcaggacgca ctctccgtct tcaccgaaat cctttgcagc gatccgtagg cgaaggggag 300
 tgaagcctac aggcaacacg ccgaagagtt tgtacgtctc atgtttggta cttgtagaaa 360

attaggaatg tataactatg acctgatgtt gctcaggtga atttgtaatg ccgtctgaag 420
 acatgtgtcg ggatttttcgt tgtatgtgaa tgtgtgtgat 460

<210> 27913
 <211> 220
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-B7

<400> 27913

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 aaaggaaaag tttaaacaac agtcctctac aaaatccaac ttcttctctt cttcacttct 120
 tctcttttcc tccccttttt acttacttcc tttttttaca tttcttcctt ctataaccct 180
 cacattaccc aacttaattct ccttcattcc cataaaattt 220

<210> 27914
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-B9

<400> 27914

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 gaagctaaat gatgcgagaa agctggaatc aagtgcgcat tacagcgagc attttggcaa 120
 agagtaatgt atgatgctgg acagatgcat aaggcgtgta tcatcagggg gctctgtcag 180
 atgcgatgca aaagcgaaag aaaccagcta tttatgttca ggctccaggc agctccactt 240
 tttcctgata ttcacaattt tagtgaggag gattgtcaag ctgaccagtg ggggaaatca 300
 gtcgagaatt tagtagttct ggcgcagatg gcctttgctt ctgtaaatcg tacgtaattct 360
 gcttccgtgc gtcttagtct ggtaataact ctggttgagc ctgttctgtt tccatgtact 420
 tttggacagt gtgcctgact ccgc 444

<210> 27915
 <211> 205
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-C10

<400> 27915

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 tatgtgaaat atggatacgt ctgttgacga tagaaatcac ctacgtgcct tacgattcta 120
 tttagcgatc taggaatacg gtgtaatcag tacctgcttg ttgacatatc gtatgcctat 180
 cgcttatgtt ggggtacccat gatgc 205

<210> 27916

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-C11

<400> 27916

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 cctgggtgtga attgcagaat cccgcgaacc atcgagtttt tgaacgcaag ttgcgcccga 120
 agccttcttg cggagggcac gtctgcctgg gcgtcacgcc aaaagacaaa caactaaaaa 180
 aaaaaaaaaa aaataaaaaa gtacataata ataagaatag aaatcaatta tcgattcata 240
 tcaggtgaac tagctgatca tgcgaataaa ggatgttcag atactgactc aggcgtatct 300
 gtatctgacc gatcagat 318

<210> 27917

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-C12

<400> 27917

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 gctgtcggcg gtggctcagg tccctctaca tctgcggcgt ggactcggc gtctgacctc 120
 aacaagcaag atagcagatg gcatgcggca gggtcgcgca tgccaccctc aagggcccga 180
 gtgtggtgaa ggagatcttc attggactga ccctgggtct gatcgcggga ggcatgtgga 240
 agatgcacca ctggaacgag cagaggaaga ctaggtcctt ctatgacatg cttgacaagg 300

gccagatcag cggtgtcgtc gaggagtaaa gagttcttcc cagatatttt caaagaactc 360
 tatcgagagc atgacatagt gattgcttgc tgtggagatt tgtcctggaa ataagcacia 420
 ccatttggga acaccagatt atgtcgaatt t 451

<210> 27918
 <211> 425
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-029-Q1-K1-C2
 <400> 27918

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 cgaggagttt gtaaagagcg gaggtgctct tggaaccaca attggacca ggggattcgc 180
 tgacgccaat atggattctg aaaacatgca gaagcagctg cagtctaaga agttcgagca 240
 ggaagcacag aaactgtgga ttcggatgag gaatgaggtc gtacaggagc tccaggagaa 300
 ggggtttgat atcgagtga tttgaaacct gcagtatggt cggcgctgag gatgttaaaa 360
 cttaaaacca cttgccatct aaattggaga actgtataac ttaggaataa aaagagttgt 420
 agcta 425

<210> 27919
 <211> 419
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-029-Q1-K1-C4
 <400> 27919

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 agggaaataa aaaaaataa aaaagaaaaa aaaaaaaaaa aaaaaaaaaa aacctttttt 120
 taatccgggg gcggcccttt tgcggttccc atgtttcctt cccctctttt gcaaccttta 180
 cttttttctt cggggccccc taattcaatt tcctggcccc tttttttaca tctcgttctc 240
 ggaaaaaccc ctggtttacc caatctaatt gcctttcatc catatcccct tttgccctc 300
 tggctttttc ccaagatgcc ccgcccgaat tgcttttcca accttttgcc cgcctattt 360

gctaactgga ccccccttt aaggggcctt ttaaccccg cttttttttg ggttcccc 419

<210> 27920
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-C7

<400> 27920

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gttacctcca gtaatcactt taggggtttt tggaggaata ctggggagtt tgtacaactt 120
tttcttggaac aaggttctcc gtctctacaa ccttatcaac gagaaaggaa aagcttacia 180
actactactc gctgcaacag tcaactgtttg tacatcatgt tgtctatttg gcttgccatg 240
gattgctgct tgcaaaccctt gtccaactga cactagagaa gcttgtccat caatagtccg 300
ttctggtaat ttcaagaaat tccaatgtgc aacagatgaa tacaatgatt tggctagcct 360
attcttcaac acaaatgatg acactattag aaacctctac agtgctggca ctgatgatga 420
attccacatt tcgtccatcc ttgtgttctt tattgcac 459

<210> 27921
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-C8

<400> 27921

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gtatttttga gacagattgc aaagtagcca ggtgggtgtag agaccagtag agagctacia 120
agctagagaa tcggacctta tcatggctaa gtttatcgat gtatgtatga agtatgggtc 180
tccagttcgt agtagcaact gggaactgat gtagtcctga tggatggact tggactcacc 240
ctgatcggtc actcaggcac tctgtactgt agatgtaggc atgtagctgc tgctagtagt 300
agtagtaatg caagtactgc tttgcatcgt atgggtgaga gagttgaaca actaatggaa 360
tgcagatgtg ccgtattgtt ttaaaaaaat tatctattat gc 402

<210> 27922
 <211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-029-Q1-K1-C9

 <400> 27922

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 tggatgggtg cttgactcgg cgtcaggata ttaccatgac aaatctactg gactttacta 120
 cgattcaaac tctggcttct attattctga cagtttaggc aagtgggtta cccaagaaga 180
 ggcgtacaag tccgtgcaag cttccaaatc agacgctggc caatcctcag cttcaciaaac 240
 aaaagctcct gctgccgcag aaacagctgt ccccgcgatt aaaggaggtg cagctccagg 300
 ccgggtggtg acgaaaccgt tgaacccaat gagaccgatt aagggcactc ctgctccgtc 360
 tgctgttgct gttaacaaga ggaagaggga tgacggcaag cccaaggcgg tc 412

<210> 27923
 <211> 451
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-029-Q1-K1-D10

 <400> 27923

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 cggcagggag gacaagcctc agccgccacc tgagggccgt cttcctgatg ccaccaaggg 180
 ttctgaccac ctgaggcaag tctttggcaa gcagatgggt ttgagtgatc aggacattgt 240
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 ggcttgact acgaaccctt tggctcttga caactcttac ttcaaggaac ttctgagtgg 360
 cgacaaggag ggtcttcttc agctcccaag tgacaaagcc ctgctgagcg accctgtctt 420
 cccgcctctt gtggagaaat atgctgcaga t 451

<210> 27924
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-D11

<400> 27924

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 ggatcattcag ctccaagggtg atcagcgcaa gaatgttgct acttccctag ttcaggctgg 120
 gattgcaag aaagagaaca tcaagattca cgggttctaa gggacctgta aatgcttggtg 180
 ccctatattg tgtgcctcca catattgggg agcttgaagc atcgacaagt tactagtcac 240
 tgcttactta tataagaaca taagtagtat ttgctattgt caagtgtgcc ttgcttgatg 300
 caagtgtgtg tttcgatatca ttattattat gcacggccat cgtacgtgta tggcttgatg 360
 gggttattgc caacttaata aaagcacact ctgtttgcct aaaaaaaaaa aaaataaata 420
 actaaatatt aaaaaaaaaa aa 442

<210> 27925

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-D12

<400> 27925

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 gcagaagggtg ctgaagcaga ggcacgtcgg gagcctcggc cgcacgtgc tccccaaaaa 120
 ggaagcggag gttcacctgc cggagctgaa gacgaggat ggcacacctca tccccatgga 180
 ggacacgga acgtcgcgcg tgtggaacat gcggtacagg ttttgggcca acaacaagag 240
 cagaatgtat ctgctggaga acacagggga atttgttcgt tccaacgagc ttcaggaggg 300
 ggatttcata gtgatctact ccgatgtcaa gtcgggcaaa tatctgatac ggggcgtgaa 360
 ggtaaggccc ccgccggcgc aagagcaagg cagtgggtcc agcgggggag gcaagcacag 420
 gccctctgt ccagcagggtc caggagagag 449

<210> 27926

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-B5

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tagtggtggc atggggaggg aagaccacat ggcacatgtc gtgtgtggac acgtaggggc 360
cgtggagcca gcggcggcgc gaccaggcag agcgcgtgtc agagtgtctg cacctgcagg 420
agatggagag gaggagcacg aga 443

<210> 27929
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-A12

<400> 27929

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gcaagagaaa gaatgctcag caaactaaga ctaaaaaaac aaaggatgct ggaacaaaaa 120
ctggtgcaga ccaagcaggg aatggagatg ctgaggatga tgtgcaagat aaactcacag 180
ggaactctgt ctcccagagg ttaccattaa tatttccaga taaagttcaa cgttcaaagg 240
cattgattga atgtgatggg gactcgatag atttaagtgg agatattggg gcggttggga 300
ggatagtagt ttcaaattgg cctactgcaa aacaggattt ggtgttggac ctgaaaggaa 360
caatatacaa aacaactata gttccatcca ggacattttg tgttgtgagt gtgggacaat 420
cagaagcaaa gatcgaagct attatgaatg 450

<210> 27930
<211> 463
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-A2

<400> 27930

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ctgtggaaga atgtacccca gggagctgcg actacttgcg acgtaggact gagccctcaa 120
ctcaagggag tgacaggaaa gtactttgct gactgcaacg tggagaagac gagcaaactg 180
gcgaggagcg aggagttggc gaagcagctc tgggacttca gcgaggagct gatcaagtct 240

gcgaagtgag agccgaaaga gctggatcag agaaaatggt gtggtcctgc ttggcatcta 300
 gtggtacaag tgatgactga ttagtatata gcacggaaga ggaacctggg cgatggctgg 360
 acctcatggt gttcaggaat aaaatctgct tgctttcgta cattaattag tcccgtgtgg 420
 catacatcaa tttgtagtgc tgtcaatata tgttcaatat acg 463

<210> 27931
 <211> 253
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-A3

<400> 27931

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 cggtgtttct tgataaaaaa aaaaaaaaaa aaaaaaaac aaaaaaaaaa aaaacaaaaa 120
 aaaaaaaaaa aggggtcaaaa ctttacaaat actaacatca acgtacacat tcaatcgact 180
 acaaacatgt aacatagagc cacctaaaca gaatcaacta tcacatcttt taacaacata 240
 aagactagga aaa 253

<210> 27932
 <211> 377
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-A5

<400> 27932

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 agagggcgga acgcactaag actaaaacaa caaaggatgc tgtaacaaaa actggtacat 120
 accaagcatg gaatggagat gctgaagatg atgctcaaca taaactcaca gggaactctg 180
 tctcccataa gttaccatta atatttccag ataaacctca acgttcaaag gcattgattc 240
 aatgtcatgg tgactcgatc gattttaaacta gagatattat tgcacttgac aagatagtag 300
 tttcaaatag tcctactgca aaaccagatt tgttgttggg cctcatagga acaatataca 360
 caacatctat agttcca 377

<210> 27933
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-029-Q1-K1-A6

 <400> 27933

 taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aataaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
 aaaggaaaaa aaaaaaaaaa aaaaaaaaaa aaaaataaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaagtg cctacctttt taaagatccc ctttttcctt 180
 cctcttcttt caaattatta accttttttc agtttgccca aatatcaatt acctcaccta 240
 tcttttaaaa ccatagcatt tgaaaaaccc ttgtttttcc caattttaat cttttttaaa 300
 attatccctt ttttcccttt tggttattac cctaaaagcc cccattattc cccctttcca 360
 aatatttccc cctccttatt gcctattgta cccccctttt aattggtcct taaacccc 418

<210> 27934
 <211> 405
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-029-Q1-K1-A7

 <400> 27934

 atcgatttgg agctagggat gtaatatgat ttagaaaata tccgaaccag tattgactag 60
 gttagagtca gtactgggtc ggatggaatc ttcggatatc cgcactcttt gcgataactg 120
 gtacggatgc ggatattgta ttcggatatc gaattcgaat acaatatgtc tgatatctgt 180
 cggatatcga atatccggat attttctcgg ataaatcttc tcggatatcc ggatagctgt 240
 gtgtattttg ttgatctttt tgtagaaaga aattaataat acacaaatat tctcaaaaaa 300
 taagaaggct aataagcaaa ctaactcaca caaattgaga tgaatctaaa ctgaacgtta 360
 tccagtaaat aaaccttaaa cagcaaaatt aaaagggggg gccgt 405

<210> 27935
 <211> 399
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3067-029-Q1-K1-A9

<400> 27935

gtcgggggagt tcggggggcaa cgactacaac gcgccgctct tctccggcgt cccatggtct 60
gatgtcaaga cttacgtgcc ccttggtgca aaggctatcg ccaatggcgt tgagaaactg 120
atcgagcttg gggcaacaga cctcctggtg cctggcggttc tcccaattgg ctgcttcccc 180
ttgtacctga cgctgtacaa caccagcagc aaagcagact acaacgcccc gaccgggtgc 240
cttcggaggt acaaccgnet ggccttccac cacaacaggg agctgaagca gcagcttgac 300
gagcttcaga agaagtaccc caagacgaag atcatgtatg ggagatactt caaggctgca 360
ctgcagtttg tcgtcaaccc tggaaaattg gttttagca 399

<210> 27936

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-B1

<400> 27936

caatcagtca gtcacagctc acagcaaaca ccgcgaagcc gcccccgctc ccaaaccgga 60
ccgagcaaag cgcaaagccc cccaaccgcg gatcaatccg cagcatcgat ggcgcccaag 120
gcggagaaaa agccggcggc gaagaagccc gcggaggagg agcccgcgac cgagaaggcg 180
gagaaggctc cggcagggaa gaagccgaag gcggagaaac gcctccccgc gggcaagtcc 240
gggtgccggcg agggcaagaa gggcaagaag aaagccaaga agagcgtgga gacctacaag 300
atctacatct tcaaggtgct caagcaggtg caccgacaca tcggcatctc gtccaaggcc 360
atgtccatca tgaattcctt catcaacgac atcttcgaga agc 403

<210> 27937

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-B10

<400> 27937

cccacgcgctc cgggaagaga atcaagctca gtgctgagaa ggctatcttc atatttgtga 60

agaacaccct tccaccaaca gctgctctga tgtcttcaat ctatgaagag aacaaggacg 120
aggatggggtt cctctacatg acttacagtg gtgagaacac cttcggactg ctctagatgg 180
ctcaccgcaa tcgggtcggg tagccttgcc catgcctcct gtaaataaga cctgccaagc 240
aactgtgtat attctggttt cgctggttga agtgggttgcg ctctactgct aaagcctacc 300
tatcagttgt ggagttgtcg tcgatgttat ggacacactt aatcaagttt attaattgac 360
tggacc 366

<210> 27938
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-B11

<400> 27938

ctcgtccaa acacaccacc actccacagt gcacttcaact ctacagcaac gacagagaag 60
tgagcagcag acagcagcag ctgctgccat ggaggcgtgg agatctctcc tcgcgagctt 120
cgtgctcgcc gtgctggccg cgcaggcctt ggtggccgtg gtcgagtcca ggaccggccc 180
cgtggagcag gcgagccaag gtgacgacgt gaagaagccg gactgctgctc cggggataga 240
cccgcgctcg ttcccgggca ccggcgggcg ccacggcatc acgcccgtga cgccatcgca 300
cggaggctcc agctccccga cgccgtccca cggcgggcgc ggcggttacg ttccaacgcc 360
gtcgcattggc gggacgctgc ctttcccgtc ccacggcggc tccggctccg gtcctctctc 420
gacgtcgccc 430

<210> 27939
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-B12

<400> 27939

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cgccactgaa tggatgcttc cgtctccggc cagcaagtc cacaccatct ccgtacttcc 120
ctcccgtcgc gacttcgcct tctccaacct cagcatgtcg ctcaggaata gcggcggaac 180

cgagggagag agtggcagta ctaagttcca cgtagtacgg gacgacctcc tccacccgct 240
 cgccaacggc aacaaggcgc gcaagctcga cgccctcctg cccgtcctcc gcegtgcgg 300
 cgctactgac atcgttacgt gtgggggttg ccagagcgcc catgccgcag ctatcgcggt 360
 tcaactgtgcc gaatggggaa tcaggccaca tatactactg agaggcgagc aactggatgt 420
 tcccacaggg tataatctca tctcattgat g 451

<210> 27940
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-029-Q1-K1-B2
 <400> 27940

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 ggctggcaag aagggatgat ccaagaccca ggccttgaag gttgccaagg ctgtgaagtc 120
 tggggcagcc tagaagaaga ccaagacgat ccgcacgtgt gtgacatttc accgaccac 180
 gaccctgaag aaggctaggg accccaagta cccacgaatc agctctaccg gaaggaacaa 240
 gcttgatcag taccatattc tcaagtaccc cttaccaca gaatcagcga tgaataagat 300
 cgaagataac aacactgtgg tcttcattgc tgaccttaag gcagacatga agaagatcaa 360
 ggctgacgtc aagaagatgt atgacatcca tgcaaagaaa gtcaacacct tgatcaggcc 420
 tgatggga 428

<210> 27941
 <211> 68
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-029-Q1-K1-B3
 <400> 27941

aaaaaaaata gaaaaaaaaa aaaagaaaga atagagaaga agaaaaagac aaacaaacaa 60
 gggcgggc 68

<210> 27942
 <211> 462
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-B4

<400> 27942

cccacgcgtc cgccacgcg tccgaaggaa ttggccttaa accttgaagt tggcctatg 60

agcatgacca agtggcagtt gtttttacag attgagcagt ccttcaggt tcatcgtagt 120

tatggaagta tgcttgaagg cgaggctgat gaactcaaga gggttttcct tgaaggaaat 180

ccttatcttc ttggattgac catgattggt tctctattac actctctgtt tgatttcctg 240

gccttcaaaa atgatattca gttctggaac aagaacaagt ccatggaagg tctatcggca 300

aaatctgtgg ttctgaattt tgtgtgtcaa ctaattgttt tcctgtacct tcttgacaat 360

gacacttcat ggatgaccc tgcctagctct ggaattgggtg tttgcattga gttttggaag 420

atcggaaagg cgatgcatat tgaagtcgat agaagtggaa aa 462

<210> 27943

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-A1

<400> 27943

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gctcatcctt gcatgggtca gcaccgtggc tgggaaagcc tggctcatcc ttgcatgggt 120

cagcacctgt gctgggaacc tcacctcct aggctctgcg gcgaatctga ttgtctgcga 180

gcaggccagg cgggcccagt tcttcggcta caacctcacc ttctggagcc acctccgatt 240

cgggggtccc tgcacatca tcgtcacggc gattgggttg ctcacgtca tcagttactg 300

aaacagctga aggcagaaga gcgtagtgta agagaagcag aatggataaa aatccttcca 360

ataagaagta catgtaaatt aggcttgccc tataactcaa gtgtgtatcg gtacgttatg 420

tctccgtctg tgctcttgct cgtgagcaag cagcacatg 459

<210> 27944

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-G5

<400> 27944

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gcagaagaag cgaagtcgtc gccggagcag gaggaagagc gagcagcaag atgtcgtggc 120
aggcgtacgt cgatgaccac ctgctgtgcg acatcgaagg ccagcacctc agcgccgccg 180
ccatcgtcgg ccacgacggc agcgtctggg cacagtccga gaacttcccc gagttaaagc 240
ctgaggaggt tgctgggatg ataaaggact ttgatgaacc tggaactctt gcaccaactg 300
gtctttttgt tggaggtacg aagtacatgg tgatccaagg tgaacctgga gttgtcatcc 360
gaggaaagaa gggcactgga ggcattacta tcaagaaaac tggcatgtcc ttgattatcg 420
gtatctatga tgagccaatg a 441

<210> 27945

<211> 449

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-028-Q1-K1-G6

<400> 27945

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aacattgtca caagtaaaga ccttctaaca ccaggatgatg atgatgaggg tgtcatattc 180
gaagaggagg atgatgatga tgagaacgat ggatacctat tcgctgggca atgcacttcc 240
tattccaaca attgatgtca ttgaaggagc tgcccttggg ggtgggctag aactgggaga 300
caatctaacc tcttcaaaaat ccaacataaa ggttgcaaag tagacatgcc ctatttctat 360
agttcatgct tcatggatat gatggtcaca cttcatgggc tcggtgctg anggaacagt 420
gatagattga tatgagggtt gcaagtcag 449

<210> 27946

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-G7

<400> 27946

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tatctttatc cagatgagga caactattgt ttgcatatga acgagacatt ccatgcaaac 120

aacattgtca caagtaaaga ccttctaaca ccatgtgatg atgatgaggg tgtcatattc 180

aaagaagatg atgatgatga tgagaactat ggatacctat tcgctgggca atgcactttc 240

tattccaaca attgatgtca ttgaatgagc ttcccttggg ggtaatctat aactttgaga 300

caatctaacc tcttcaaaat ccaacataaa ggtttcaaag ttaacatccc ctattttctat 360

a 361

<210> 27947

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-G8

<400> 27947

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gattgatgcy gccacgatac ccagtaaggt gaagtacacg cccccaagc agccgcacta 120

caaccaggat aagaccccg agttcgtcac caagatcctc cagtttttgg tccccctggc 180

aatactgggc ctggctgttg ctgtaaggat ctacaccaag tcggaatctg cctagtcac 240

tgaaccaagt tagcgagggt tgcattttgt ttaccagagt cgcattgtcag aaacttggag 300

tctttgctgt catacgggta tatttatatg agacttctat cggtaaaatg aaatggatgt 360

cag 363

<210> 27948

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-G9

<400> 27948

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tcgataatgt tgatgaccac cctttagaaa agcaagacca ccaggatata tcaagtgcag 120

gatctaaaaa gagaagccga tctgtggaca acgcatctgg tggcaacaga ccatacttgg 180
atgagagcaa gaagcgtaat ctcagagaag atggaagata tgctcattat gaagactgga 240
gaagtgaaag gaatacagca gcagacacgt ctggatataa ggcccaatca gaagagaagc 300
ctgtatggac aaacactcga acaggatcaa gggagcattc actggacagg caaaggatag 360
agtgtggtga cagctatcgt ggaacctata acaatagaca aagacatgaa tggccgcacg 420
ctagtgttaa ttcctcgaga attggttggg atg 453

<210> 27949
<211> 444
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-028-Q1-K1-H10
<400> 27949

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caagaaactc accgtactac ggagatcaat atgtccattt caatgtcaac atccccgaaa 180
atttgacgtc tagacagcgg gagctgatcg aggaattcgc gaaggaggag caaggcgaag 240
acgagaagga cgccaaggca gcagctggag catcgggggg atagccggtt ttaggagcca 300
cagtagtgcc ttttagctgg tatttatacc gtgaccatag acctgtctca aattcgcagc 360
ggaaaaaata tatagatagg tcttttggtc ggattttgta gcttggataa atggataata 420
cgtctaaaac tggttttctg tctt 444

<210> 27950
<211> 449
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-028-Q1-K1-H11
<400> 27950

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aggtgctgga gggtttcacc gcgagcatcg tctccgtcgc ggacaactac gtcgcgccag 120
tcattgacga cctcgagagc agcggcgcgc gcatggcgtc gctcggcatc tggctcgaca 180

ccacccgcga cttggagcgc ctgcgcggc tagcgccggg cgtgcgcgcc cggtcgctgc 240
acctgcgcaa gttagaaggg acgcgcgcc tgccgctgct gtccgcggag cacgcgccgg 300
aacttgccgg cgtgcaggag agcctgcggg agctggtggt ctactcctcc gacgtcgagg 360
aggtcacggc cgacgcgcac gtgcccatgc tggaggtcat caagtttggg ttccttacga 420
agctgcgcgt catggcgtgg tcccacgcc 449

<210> 27951
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-H12

<400> 27951

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ggttacatcc cgctcaccac gtacctgcgc acctacaaga tcggcgacta cgtcgacgtc 180
aaggtgaacg gcgccgtgca caagggcatg ccgcacaagt tctaccacgg ccgcaccggt 240
cgcgtctgga acgtcaccaa gcgcgccatc ggcgttgaga tcaacaagca ggtaaatggc 300
cgcatcatca agaagcgtat ccatgtccgt gtggagcatg tg 342

<210> 27952
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-H3

<400> 27952

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gagggaggcc atgagccggt tgccgtcggc tccgtgaccg gccgccgtgc cccggcccgg 120
aggtagatag gttggtgtat ctatcgctcc cgttgtcatg ctctcaacaa gttgacttaa 180
tcttcttctt cttctccgtc cccctttttt atttttatta tgtcactagc aagattcttt 240
tggtccattg ttttgttgtg ttgtttactg ctgctacata aggaatcaat ctcatgggaa 300
gatgatgagc aaaagcaaag caagaccagg ttgctgttat aaatttatat atatatat 358

<210> 27953
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-H4

<400> 27953

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gaacggtatc aacaatgcaa catttggttca aggggacctc aataaaatca atgaatcatt 120
cggaagga tttccaaagc ctgacataat catctcagat cctaatacgcc ctgggatgca 180
catgaagtta atcaagtggc tgtagaagt taaagctcct cgaatagtgt atgtctcatg 240
taatccagct acttggtgctc gggatttgga ctacctatgt catggcgtgg aggagaaaaga 300
tttgagagga ttctatgaac tgaagagtgt aattcctgtg gatatgtttc ctcatactcc 360
tcatattgag tgtgtatgct tattggagct gcgttgattt tcagttttgg tcaggtaaac 420
ccactggagc cttgtttggg tgacgagtat tcacctc 457

<210> 27954
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-H5

<400> 27954

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aggagcaaga agggcgcgca cgcaagcagg caagcaagaa gagagccgat cgaccgagag 120
ctagcacgcg atggcgaggt cttccaagat gatggtggcg gcagctctgc tggccttggc 180
cctggccgtg tcgaccgccg aggcgaggaa catcaagacc acgacgacgg agaagaagga 240
cgacgcggtg gtgcagccgc agaccttccc gcccttcgac cgctcggcg gcggcgcgtc 300
cccggcgttc ggcggcctcc ccggcggcag cattcccggg ttcagcatgc ccggcagcgg 360
cagcagccta cccgggttca gcttgcccgg cagcggcagc atgcccc 407

<210> 27955
<211> 422

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-028-Q1-K1-H6

 <400> 27955

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 aattgagtgt gagagctcga aaaaaccacg gggatcggcc ggaccagcag cgagcgagcg 120
 cgagctctgc gtgcgtgtgt gtgtctgctc tagattagat cacctccatc gtcaataatt 180
 gcaggcagat ccatagtctg ctggtggcga gacaaagcaa cggatcgtcg tcgatccgga 240
 gagcggaag cgcgcagatc gcgacggcca tggggcgcgg caaggtggtg ctgcagcgga 300
 tcgagaacaa gatcagccgc caggtcacct tcgccaagcg ccggaacggc ctgctcaaga 360
 aggcgtacga gctctccatc ctctgcgacg ccgaggtcgc gctcgtcctc ttctcccacg 420
 cc 422

<210> 27956
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-028-Q1-K1-H7

 <400> 27956

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 gcgcagagac aggcgtgttc gtactcgctt atctccgcga ctcaaagctt cttccatttc 120
 ctaccgccgc cgctgcagct ccacccatt ccgtcgacac catgaggagag tgcattctcg 180
 tccacatcgg ccaagccggt atccaggtcg gaaacgcgtg ctgggagctt tactgcctcg 240
 agcatggcat tcaggctgat ggtcagatgc ccggtgacaa gaccattggg ggtggtgatg 300
 atgctatcaa caccttcttc agtgagactg gtgctgggaa gcacgtccct cgtgctgata 360
 ttgctgacct tgaaccaact gtcacgatg acgtgaggac tggcacctac cggcagtttt 420
 tca 423

<210> 27957
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-H8

<400> 27957

cccacgcgtc cgccacgcg tccgccacg cgtccgcttc catgtcctaa gagcatttgg 60
agacgcagaa attactcatg ttgacgatac agtagatcct gttagagaca tggaaactat 120
tagtgaagag ctcagactaa aggatataga gttcatgaaa aagaaacttg aggaccttga 180
taagtcaatg aagaggagca atgataagct gtcaaaatt gagcatgaat tatgtgagag 240
ggtcataggc catcttgagg aagggaaaga tgtccgttta ggggattgga aagctgctga 300
cattgagatc ttgaatacat tccagctact ttcagctaag ccagttgtct atttggtgaa 360
tatgagcgag aaggacttcc agagaaaaaa gaacaagttt ctaccaaga tacatgcttg 420
ggtgcaggaa catggtggtg aaaccatac 449

<210> 27958

<211> 80

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-H9

<400> 27958

aaaaaaaaat acatccagaa aaccatacca tcaatactaa ctctaaaaaa tctaaaaact 60
gcaggggctt ccaaattttc 80

<210> 27959

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-G4

<400> 27959

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agttattggt ggacagcaga ttggtcgaga gaaagccatc ggcaactgaa caagctccag 120
cacatgttgc aaaggatgca gctaccatcc gctctacca acaaggacaa cagagacctc 180
agaacttgtc gaggcaggaa ttcttgga ggtttaagag gagcgctgga ctggctgctt 240
caggtgttgc gaagaatcta aacaaaacag ccaattatat caaagaaaat attcaggaca 300

tgtacaccga tcgtcgtcca ccaaagtagc aaccatgccg agtgattgtc gtcaagagct 360
gaagaaatcg cttgctactg gaaactttac atcaggacta cctggaaact ttac 414

<210> 27960
<211> 452
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-028-Q1-K1-F10

<400> 27960

gttattcggg acacgttact tgttggattg acagggtact ccaagcaggg acaacctgtg 60
tatgcatttg gtgtgggtct tagtactttt gacaaggcct cgggtgaatta ctatgtgcaa 120
tcacacatac agatgaatga atatcgagat cgtgttgtcc tgccggctgc atcaaagaag 180
tttgggagac agattaatac ctgcttgaag gttatggata tgactggcct caagctgtct 240
gcactgagcc aaaataaaaa tgttgccgat gattactact gttgatgacc ttaattatcc 300
tgagaaaacg gaaacttatt acattggtaa tgctccataa tgtttttcag cgtggtggaa 360
agggtgtgaag ccactcttac aagaagaac ttaaaagaag atccaagtnc tgtatggctc 420
tgggagggat gagttactga aggtcatgga ct 452

<210> 27961
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-F11

<400> 27961

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ggatgcatat ggtgtgagtc tggagtactt ttgacaagga ctgggcgaac gactatgagc 120
atccacacat actagacgaa tgcattatcc agattatgtt gacttgacgg ctgcctcaat 180
gaaatttgcg agacagatta atacctgctt gaacctgata aaaccgactg gcctcaaact 240
gtattcactg agccgaatat acatgttaac caagatgact actgcggatg aacgcactta 300
tcctgagaca ttgggaactt atgacattgc taaatgtcca taggtacgcg ccgtgtattg 360

gaacgttaag accccac

377

<210> 27962
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-F2

<400> 27962

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ggatatctga atgagggtgcc gaatataagc aaattcaagt gaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagaaaaa aaaaaaaaaa 240
aaaaataaaa aataaaaaca aaaagagaaa aacaactaaa aaaatgagga aaacattcaa 300
aattaaacac aatttccttc cttaaaaaaa aaccccccaa cgtcatctat actgtccact 360
aaaaaaaaaa cggcgggact ttttaaaaac tttttttacc 400

<210> 27963
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-F3

<400> 27963

cccacgcgtc cgggtggggtg ctgcgaggcg caactgcctt ctggctgctg tttgagggtca 60
tggattacca cctcctcacc ctgctatgcc actgcctcat cctcaccctg gccatcctgt 120
tcctctggtc caatgccacg actttcatca acaagtctcc tcctaacatc cccgagggtga 180
agatcccaga tgacctggct gtgaatgttg cacgttcctt gagatatgag atcaacaggg 240
gttttgctac cttgagggag attggccaag gccatgacct caagaaattt ctgattgtga 300
ttgcaggact gtggatcctt tctgttcttg ggagctgctg caatttcctc acctgtctt 360
acatagtttt tatggtactg tacactgtac cggtcctgta tgagaaacat gagga 415

<210> 27964
<211> 115
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-F5

<400> 27964

cggacgcgtg ggcagaagcc aagtgttctg atgatttgtt ttttcaattg tgtttttttg 60

tattggttca gcaagcacat acatgattta tgacatggca tctgctatct ttgtt 115

<210> 27965

<211> 440

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-028-Q1-K1-F7

<400> 27965

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caaaaataca ttgatcagtt ccatatgtta tacgatgact tcaacatcac caagcttccc 120

ttgctttcag aagaggtttg tgggtgttcaa gctctccaaa acttttccca gcacttcctt 180

acaccataca agtctactct taaaaggggc accgtcgagg agctcgaaca gagaataact 240

atattaaaat ctgcactgca agaagctgag acagagttag atagggttag gaaaggggaag 300

cagtcagtgt gatttttttt ccacaggtca agtgtgtaaa accagagaga cgatcaattt 360

tttcgtgtca ttacactctt gttgatttca ctatcatgtt tcctcatcga ggagttaga 420

cttngtatag ctaatcgag 440

<210> 27966

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-F8

<400> 27966

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ggatcaggag cgggtggagaa agggccggcc gtgggcacgg tggctgacgc ctccgccagc 120

gtcatcggcg aaggcgccgt gaaggaggag gccgggggca gacggcagcc gtcggccggc 180

tacgcggccg tcgtgattgg cggcaccttc gaccgcctac accagggcca ccatctcttc 240

ctgaaggcgg cagcggagct ggcgagggag aggatcgtgg tcggcgtctg cgacggcccc 300
atgctcgcca agaaacagta cgccgacctg atacaaccga tcgagaagcg gatgcagaac 360
gccaaaggatt atattaagtc cataaagccc gaccttgatg ttcattgtga gcccatcgtc 420
g 421

<210> 27967
<211> 445
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-028-Q1-K1-F9

<400> 27967

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ccaccaccgg ttcctccgcc gtccccgcgg tttcagttcc ttgcttgctt gcttgctctt 120
gctctccctc tctcgtggaa gccagccaca caaggcagaa agagagagtg acgttggtgtt 180
ccatcccgtt ccgctgaagc aaccgctctc ctacaccaa ccacccacac cactctaggt 240
ctctagccga tgcgatggat gtggatccag cagcggacca gcgagggaag aacaagggcg 300
ggctggagtc ggagctggag cgccactacg acgacctgca gcgggagatg atgctgatgg 360
ccgccgatcg gccgcacaag caactgcaac agcatcgacg tcacgggcac cgncccgatc 420
tgctccagaa ctgcgacctg ccccc 445

<210> 27968
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-G1

<400> 27968

cccacgcgtc cgccccacgcg tccgcttatt tgcttaaaaa ttggacattc ctttgttaca 60
tatttggtgtt gtactgtgtt ggagctagcg ttcctggtat tctagctata ttgcactggg 120
gtggaagaac gggggacact gtcgccgtgg tcttaagtct atcagcaatg gttttcttta 180
gatttctcct cctgtatcac ttttttgctg cacatcatca atattttatt ctataccttt 240

ttttatctct aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
 aaaaaaaaaa aaaaaaaaaa aaaacaaaaa atataaaaaa aaaaaatttt acaaacacaa 360
 acttacaaaa gtttaacata aaata 385

<210> 27969
 <211> 319
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-028-Q1-K1-G10
 <400> 27969

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 aagtcggtaa tggtgatgag cacccttttag aaaagcaaga ccaccaggat acatcaagtg 120
 actgatctaa aaagagaagc cgatctgtgg acaacgcatac tgatggcaac agaccatact 180
 tgaatgagag caagaatcgt aatctcagag aagatggaag atatgctcat tatgaagact 240
 ggataactga aaggaatata gcagcagaca catctggata taatgcccaa tcataagaga 300
 aacctgtatg gacaaacac 319

<210> 27970
 <211> 448
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-028-Q1-K1-G11
 <400> 27970

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 ggagagtacc aggatcaacc gagtccacag taccaggttc attttcttct tcttctcgtg 120
 gtcacgtgtg cgccaaagtt agttttatattt attcctagtt tggggggcatt agtgccgtag 180
 atgcgtcatt ccacatccat ctaggaggga gcactgtcgt ttactgtata cggatttcgt 240
 gatgtatccc gggaaatttt tgtagatcgg actcgtagaa gaagagattg caattgcaat 300
 actgtgtatc actctgatgt tgtccagttt gagaacttga caggtgtatg ggatttgccc 360
 cgaggctgct ggttttcctg ctgcttggtt tgggaaaccg atctctcgat tgtgagatac 420
 aggcaggttt gcgcacgaga gtactctc 448

<210> 27971
 <211> 388
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-028-Q1-K1-G12

 <400> 27971

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 cgccatgcc aatgtagctc gtctagtcga gaatgggtca actggatata gcgcacagga 120
 cactcacgac gcttctcaga attcagcgcc caaagctgca aatcacgcga accaaactgg 180
 acctcagaac aacagcaacc attcaacgtt ggtccctgtg aagcccgcg cgaaacgccg 240
 tggcaggaaa ccgaaacgcg ttgtgcacaa gcagctggac atcccagata tctgcgaccg 300
 gcttacatcg tctgtggcgt gcgaagaaat actgtactgt gaaggaatgg tctgctatga 360
 ctatgatcag aactcccttc tcttaaaa 388

<210> 27972
 <211> 409
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-028-Q1-K1-G2

 <400> 27972

 agatccggag cagccgcagt cccaccgacc ccgcccgcg tcgccctcca tctcctcgcc 60
 gctgcctctc gtttctcttt tcaataatca agatgagccg tggtagtagt gccggtgggtg 120
 gtcaaagtgc tctgggttat ctctttggaa gcggtgagcc ccccaaacca gcagtggcac 180
 cagctgcaag tgctccacct gttgagaaac catctgctgc aaagactgat gcggccaagc 240
 aggttgctgc tgggggttacc agccaaacca ataactacca cagggctgat ggtcagaaca 300
 ctggcaactt ccttacggac cgtccttcaa ccaaggtcca cgctgctcct ggcggtggct 360
 cttccctggg ctacctgttc ggtggcaact gatgcccgct ctggtgcgc 409

<210> 27973
 <211> 417
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-028-Q1-K1-G3

<400> 27973

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tgccgatcgt acggcttcta tagagacatt aatgaatcat ttacaggaaa cagctcttaa 120
tcatgtgaaa acagctggcc ttcttggaga tggttttggc gccacaccag agatgagcaa 180
acgaaacttg atctgggttg tcagcaaaat tcagcttctt gttgagcaat acccctcatg 240
gggagatact gttcaagtgg acacatgggt agctgctgct gggaaaaatg gcatgcgtcg 300
agattggcat gttcgtgacg aanactctgg acgcacaatc ttgagagcta caagtgtttg 360
ggtgatgatg aantagaaca ctagaanggc tttcgaaaat gccggacgaa gttaggg 417

<210> 27974
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-E9

<400> 27974

aatgtactac cctcctggat ggtcttactc catcgcgaaa cgctagtctt cctctaaaga 60
aatcttttagc aactaccgac aactccgaac taatcttaaa aaccatggct tcaaaaaagc 120
ttcttcttgc cgctctttgc cttgtggccg ctgcgcttct ctcccttccg tctgaatccc 180
acagccttga agactttctca agcaacgacc cactccaga gattcaaacc ttcttcaatc 240
cccaagcccc tgctctccct gaagcccttg acccgttctt cattcccgtc tacaccattg 300
ccgctaaacc tgatgccacg tcaatcccca ccaccaacac ctgcaccaca cctgctgctg 360
ccgctggcac cttaccctct gcaagcacta cttctt 396

<210> 27975
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-D5

<400> 27975

cggacgcgtg ggctcaaact cggctctgagc atcgatgagg acgagcctgt tgaggcagag 60

gctgagatgc ctcagcttga ggacgacgct ggtgaaagca agatggagga ggtcgactaa 120
 gtgtcgcacg ccatgcttgc cgtttatctt atccctagct aagctacctg tgatagctta 180
 attttacta ttgttcgagg tttttggcac gttatcggtt gtcctgctgg ccaggctata 240
 agtctggttt atctgttatg tttacccttt ttaacagttt gtcggtatta ttcgtaatgg 300
 taaaaatgta gtacatgttt tgccc 325

<210> 27976
 <211> 452
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-028-Q1-K1-D6

<400> 27976
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 aggccgccga cgaaggggtgc tcgctgggga agcgcctcgc gctgtcccag ctcccgcagc 120
 tggcggcgcg ggccggggccg gcggcggaagg gcgggggtcgc gctggtgctc accgcgcagg 180
 acgtggccgt ggacgggttc tgcacgagcc gctgcggcct gcacggctcc gacgccgggg 240
 ccggggccgc ctacgtctgg gtcggcaacg ccgaaacgca gtgccccggg cagtgcgcgt 300
 ggccgttcca ccagccgctg tacgggcccc aagcgccggc gctcgtgccg ccgagcggcg 360
 acgtcggcat ggatggcatg gtggtcaaca tcgncagcat ggtcgccggc gccgtcacca 420
 acccgttccg cgacgggttc taccagggcg ac 452

<210> 27977
 <211> 431
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-028-Q1-K1-D7

<400> 27977
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 gcctcctggg ctcacgaggt caagcaggcc ctccgtgaga aactccggcg ctctacggc 120
 gccggagctg cctccgccac accggaggcc aggccggccg gcgaaccaag ccgtggcgct 180

gagtgccgcg gctcggcggc cgaggacccc ataaggagag tcatgttctt ggctccctgg 240
 ggtcacacat aagaacacaa accggcggc cgagatctgg gcatgcaagc ttgcatggcc 300
 atgtcttggc cagtcagatc tgcaacaac caaactgtaa aaaagaactg gagcctgtct 360
 tgtaaactcat ggagcttgct gctgcttgca cccatganaa acatgaacgc atgggagagc 420
 tggttaactag c 431

<210> 27978
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-D8

<400> 27978

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 catggcgctg tcgtcgtcga ccccgggcggc cgtccgcgag atgcagaagg atctcgaggt 120
 ccaggccaac gccctcagca agatccagaa agacatcgcc aagaaccacc aggtccgcaa 180
 gcagtacacc atccagggtcg gcgagaacga gctcgtcctc aaggagctgg agctgctcag 240
 cgatggggcc aacgtgtaca agctcatcgg acctgtgctg gtcaagcagg acctcgcgga 300
 ggccaaggcc aacgtcaaga agcgcacga gtacatctcc gcagagctga agcggatgga 360
 tcgggcgctc aaagacttgg aggaaaagca aaacagcaag aaagaatcca tattcagttg 420
 cagcagagga tgc 433

<210> 27979
 <211> 313
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-D9

<400> 27979

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaataaaa aaaaataaaa aaaaaaaaaa 60
 aaggaaggat aaataaaaag gaaagaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaatct aaaatttaaa aaaaaatcgg ggcaactttt taaaatttcc aagttttaca 180
 ccatcatctt tttaaagtga caactttttt taaacggcat tcttataaaa accttttgtt 240

ctggatttaa aaacggtttc aaaaaaaaaac ctttttaaaa accatcttta atgccaatga 300
gccattttcc ctt 313

<210> 27980
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-E1

<400> 27980

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gcctgcagcg gatctccatc tggteggagt ggatcgggtc tccggtggtg tttctcgctt 120
ccgtggcggg tagtggcgcc ggacggacca cgtccccgca gcagcgggtc gcggcggctg 180
gcctagctgc ggtggcctga ggcggctctc ggacgggtgc ctcgagctgg caccagcggg 240
tggtgtccgc aactctcacc gctagctggt gtagaggcgg cgagtcccg cgccatggag 300
ggtaggccgc aagtgtccgc ttagagaggg gtcaacaaag ggacttgtca agctacgaca 360
ctgcggtctt cggttgccct gctcagcttg ttgttgccgt acatgatcct tcatgat 417

<210> 27981
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-E11

<400> 27981

cacaggcaag gccatccata tatctcatca gtattcgaag agaaatctga tcgtctcatg 60
tgcggtctgg ccgtccgaag agagtggaaa tgatcgctct ctccaagata gccttggtgt 120
ctgcggtggc gctgctgggg ctgggctggg cgtaccaggc caccgaccg ccgaccccg 180
cgatcttggg cgcaccaaga tggccgtcga tcagctcacc tagaatccgg ctgaaagacg 240
gccggcacct tgcttacagg gaggaaggag tgcgcaagga gaacgccaag ttcacgatcg 300
tttcatcca tggcttctac tccaccaatg agagcgggtt ccccgagtcc catgagcttg 360
tgagcagct gggcatatac atgctcttct tcgacagagc cgggtactgc cacagcgacg 420
ccaacccgaa gcgctgcctc aagagcga 448

<210> 27982
 <211> 385
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-028-Q1-K1-E2

 <400> 27982

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 gtctgttatc cattcggatt ataaccggaa ataaaattgg accagcaaga gacaggcgtg 120
 ttcagatatt taagatgcat tgtacatttg gttgtattgt ttgctcctgt cctagtgaat 180
 gcctatgggtt cattctaagt taccattttg tggtaattgt gttgtaaaaa ctatatgtat 240
 caaattatat tagtactgta gctttacact gttagttcct tacggaagat ttagtctcct 300
 ggctcctttt tttgtaatat aacagtccta tcattgaatg cttgtcaggg aagggtgtgt 360
 gcctaaccctt tggggcttgt tttgg 385

<210> 27983
 <211> 289
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-028-Q1-K1-E3

 <400> 27983

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 tagacgacnn gacgaagagc gagcgcnncg ataagaaatc tgcgcctgtg cacaanncga 120
 cgaagcngga aggggggtacc cgtacctnnt ggagaatccc aagnnnaagc taannngaaa 180
 tgggtcagcc nnnacgtttg cnnatccgaa gcatggggct tgctatgnnn tcaactgcnn 240
 aactattggg caacacttta tcctgnngtg gtgaaatggg ttgccaagc 289

<210> 27984
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-028-Q1-K1-E4

agctggagga tggccgcacc ctagcagact acaacatcca gaaggagagc actctccacc 300
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 gggatatctgc gtcgtctggt gccctctggt gtacctctat atggatgtcg tcgtctaata 420
 aacatctgtg gttngtgtgt catgaa 446

<210> 27987
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-E7

<400> 27987

cggacgcgtg ggcggcgctc ccctccgcgg cgtgctgcag cgggggtgcg tcgctcaaca 60
 gccgcgcgtc gtcggcgggc gaccggcagg ccacctgcaa ctgcctcaag agcatgacgg 120
 gccggctcgg cggcgggcgtc agcatggcca acgcccga catccccggc aagtgcggcg 180
 tctccgctcg cgtgcccata agccccaccg tcgactgcac caagatcaac tgatcgatgg 240
 aaccatagtg gaggtagctc gtcggttggg tggcagcgta cgtggccatc agcagcatgc 300
 agtcgtcgtc gtagcagaga tgtcctagct acgtgtgtgt catgcatcag actggcacat 360
 aataaagaag tagatcatgc acccactagt gatcacttcg tctagtgtcc ctccgttcaa 420
 tgtcgtc 427

<210> 27988
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-E8

<400> 27988

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 cgtcatggag tctggctcca gatccagcgg cggggcgggg ttcgacgacg acgacggcct 180
 cagcagcgc gcgcaggtct cctcttcgct ccaagatttg acagtaaggg tggaccggaa 240
 ggggtgggagc tgcagcgatg gtggtacgga tcagcggcca aacacaccgc ggtcaaaaca 300

ctcggccaca gagcaacgca tacgcaacat gatcaatgat aggtttcaga tacttatgga 360
gctgttgcca cacagtgatc aaaagagaga caaagcaaca tttctcttgg aggggtattga 420
atatatacgg gttttgcaag aaaag 445

<210> 27989

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-D4

<400> 27989

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cacgcaccac tagtaggcta gcctagcctt ttagtcgctc agaggagca agaagggcgc 120
gcacgcaagc aggcaagcaa gaagagagcc gatcgaccga gagctagcac gcgatggcga 180
ggctcttcaa gatgatgggtg gcggcagctc tgctggcctt ggccctggcc gtgtcgaccg 240
ccgaggcgag gaacatcaag accacgacga cggagaagaa ggacgacgcg gtggtgcagc 300
cgcagacctt cccgcccttc gaccgcctcg gcggcgggcg gtccccggcg ttcggcgggc 360
tccccggcgg cagcattccc gggttcagca tgccccggcag cg 402

<210> 27990

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-C11

<400> 27990

tccattcaag gtaataaagt caataaaatt gatgtagttt atactccatg gtacaatttg 60
aaggagacgc cttcaatgga tgtgggcca gttggttttc acaaccctaa attggttcgc 120
actattaaag tggaaaagag gatcaatgag attgtgaacc gcttgaataa gacaaagggtg 180
gaaccaaaaa cctgatttaa aggctgaaag agaggctatt agtgctgctg aaaaggcaga 240
tagaaaggca cagcttagag acaagaaacg tagggaagag attgagaggc ttgagaaaga 300
gaagcacgct gatatcagga gctacaaggg tctaactggc caagagaaga tgacttcaa 360
taagcaaadc gcttctggca tcaagacctt gcaagaactt gactaagact ttatgtgata 420

tgcgacatt ataaatgcca tgc

443

<210> 27991
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-C12

<400> 27991

ggaacccatg gcagaagaca ttggttcctc caagcaagct cctcaggcag atgccagtgc 60
aatggccatc gatgaaccaa gcaatgtcaa gaatgaacct gagagctcaa ctaaattgca 120
aggccaagca gctgctgacc acaagccata gctgctgacca tcaagagttg ctgggtttct 180
gctaggcaac ttcctgcttg atttggacag tccagaaaac agaagtgaat ccgcaatacg 240
tccctgccat ttcaaatttg acttggttac acctatctgt gacaatgtta atgtaatgag 300
aaccattgc actagtgaag gtcccaagtg tccacctggg attgcttgcc gttgaaagag 360
acgatagtct gatgacccat gtatacatga agcccatgat ctcaagtgtg cagtcattag 420
ccaatacaaa tatgcagtgg act 443

<210> 27992
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-C2

<400> 27992

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gttcaggcca agttcaagct gcggtcgatc gtgacgatgg tgctcttctt ctgcctgacg 120
acgccggtgg gcatcgtggg gggcgctggg atctcatcgg tgtacgacga ggacagcccc 180
acggcgctgg tcgtggaggg cgtgctcaac tcgggtggcg cggggatcct ggtgtacatg 240
gcgctggtgg acctgctcgc cgaggacttc atgaacccca ggggtgcagag ccggggcaag 300
ctgcagctcg gcatcaacgc cttcatgctc gtcggtgccg gcctcatgct catgctggcc 360
aagtgggcct agtttactag ccagccactt tttgctctc 399

<210> 27993

<211> 401
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-028-Q1-K1-C3

 <400> 27993

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 ttggtgaaca gaataactcaa gcatacctatt tcttcatgac agcaatgctg cagctcttcg 120
 accggtccgg tatgctctac ggcgagcttg cacggtttgt gctgcgtttg ctaggagtgga 180
 gaagaaagcc aaagaagggg ggcagcattc agggggccaga agcgctggcg ttcgagggac 240
 ctagccggca gtctatcgag gcaccgaaaa cgaacaactg ggacaacgtc tggggaaact 300
 gagatcatgc ctatgggtgc aacgagttga atcatataga agaagtgcaa gggctatgac 360
 ctatgggagt ttgcttgcc tttgattcat caaaaagaag a 401

<210> 27994
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-028-Q1-K1-C4

 <400> 27994

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 ccaagtttat cgtgcctgac aaccagaga aaatcctgtc gcttgcgct gccaaaggcta 120
 gccatcatag agctcttggc tctgcggacc tcacatgtgc cctgcaggca tgcagggggc 180
 gaggcaaccg atggccgctt gtgctggaga tccacgcgac atcagtcgtg cgtgggcttg 240
 gggctgaccg ccttataggc aacttgctga tcgatctgta tgcaaagaat gggctcgtgt 300
 ggcaagcacg gcaagtattc aaggagcttt cttccaggga ccatgtctca tgggttgcca 360
 tgctgtcagg gtatgcacag agtgggtcttg gaaaaggaag ctttcaggct ttacagccag 420
 atgcattgga ct 432

<210> 27995
 <211> 435
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-028-Q1-K1-C5

<400> 27995

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gccgcatcca ccgcatgctc aagctggggc tgagcatcga cgaggacgag gaggctccgg 120
aggctgacac cgacatgccc cctctggagg atgacgctgg cgagagcaag atggaggagg 180
tcgactaagc tgggttttatt cttatggagg aaagagagag aacatcgggt ctgttctgtg 240
ggtcttacca cttatgctat tatgcaatct gttgttggtg tgctagtgtc actattgtct 300
ctgctgtctt ctagttaatt ttggtgttgt tttgcgtggt cagtttctca tcgcatcagt 360
ggtagaaaac attcacctgt gggactaana aaatgtttga ctgggaatng gaacgcaatc 420
ggcaggtctt ctgtt 435

<210> 27996
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-C6

<400> 27996

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gccgaatcca ccgcatgctc aaactgggac tgagcatcta ctagtactga caggcacccc 120
aggctgacac cgacatgccc cctctgaact atgacgcttg cgacaacaac atggacgagg 180
tgctctaagc tgagtgcatt ctcatctagg aaagagagag aacatcgcgt ctcatctgtc 240
tgtcttacca cttatgctat gatccaatga gccccaggta tcctaacgct actattgtgt 300
ctgctgtctt ctactccatc atgctgcttt tttgcggcct ca 342

<210> 27997
<211> 124
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-C7

<400> 27997

gcggcaccaa ggtaccggtg tcttcgatgc aaagtagtgt gaaacggcta ttgaggtttg 60

tgaaaatcga ctgtatgatg aggaattatg caaataggaa aattgcgctg ccgtggactt 120
gatc 124

<210> 27998
<211> 518
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-028-Q1-K1-C8

<400> 27998

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cganntagtg aagaattacc aaggttanna ttgagcccag tatctgcctc nnaacacaca 120
tgcnnctcta ctcnacaag gacctgnngt cgctggaacc tggagnnna agttttttca 180
cttttgatcg anngatggag atnacttaat aagtaccttc aagatattta aaaataatct 240
gcattaacaa gaaatgctat nntatggcac ggttcaaggg ttgaccgaa ttttgtggga 300
aattcttaag tcaaagggtt ttaagaattg cacctnctga agggcacctg ttactggcta 360
tantgttcgg caaaaggcct ctactttgca agatctagta aagcaagagc gcacaatact 420
tgttatgtgg ataggaataa tcctgtaggt ttgatgcttc tttctgaggt tgctttanga 480
gacatgtatg aactaaagaa gccacgtnc tggacaaa 518

<210> 27999
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-C9

<400> 27999

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ggtaccatgg caactacaaa ggccctccaca ttgaccttgt attgcctgga aaggatgctg 120
ttttaggagt cgacagtgtt ggtacggtat cggcagctct tttgactagt ttttccattc 180
aaacattgaa gccagacctt atcattaatg ctggcactgc tgggtggcttc aaggccaaag 240
gggcaagcat tggagatgta ttcctggcat cagatgtttc attccatgac aggaggatac 300

caatacctgt ttttgacatg tatggaattg gagcacggaa aacttctgca gttcctaata 360
tcttgaagga actcaatttg aagattggcg aattgtcgac tggggattct ctggatatgt 420
ctccccacga tgagaagggtg atac 444

<210> 28000
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-D1

<400> 28000

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gcttgaatca gccaatacca gcaaatgaag ctttctattc aaccctgca caaccagctt 120
caagccctgc acttgagatg cccatggatg tagagatgac ttcaaacaat gttgatacct 180
ttgattcaac tggcaatgat tttactgaca cctctgctct atgtgaatgg gatgacatgg 240
atatatttgg tgacgaactt gagcacattc ttcaacagcc agagcaggac tttcaagtgg 300
accctccttt aacagttgaa gattatgggt atgatcatcc acggttagag caagactgtc 360
agatggaagc acaacagaat tgcaaaaatc ctcaatatgc tgatgtcata act 413

<210> 28001
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-D10

<400> 28001

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cataatggag aaaacagtta cagaagcttt tcaaattttg gaacatgatg aaagaaactt 120
gtacactgac caagaggaat cagtatcatc aaacgagcaa gttgatggat cttcattcct 180
gagtaaaaaa atcagtaaaa ccgaagatgc aatttatgaa aacacattcg gtctatctga 240
aggattagaa gaaagtgata gaagatgtcc ccatcatgca acatgtagct ctttctgggg 300
tcctttaga aatgacacag actttactga tcaagtaact tcaagtatat ctgattaacc 360
gtttgctggt gctttctact tctctgatgg tggttacaga ctctgagaa ctttaactgg 420

tggatcaaga attccgtccc tggtaataat tgat

454

<210> 28002

<211> 227

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-D11

<400> 28002

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ggatggtgca tacaacagcg acggtaacaa tataaaaatt cttaactaga gaaaactaaa 120

atagggccct ttcgttctaa gtattccaac ttatactact agtaaattca tggatttacc 180

tcacttattg ggctactaaa acatattcaa atatgccatt ttttaaa 227

<210> 28003

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-D12

<400> 28003

gcagatgctg cgcacgcact acggctggga gagcgtggac gtcaccgtcc ctgagatcga 60

agagatgcgg ctggcgcaact acgtgaccat gggctcggag tgcaactgcct ccctcgtgc 120

caagtacctg gacagcatgg acaggtccga ggtcgggtgg gacgtgcgga tcgcgctcag 180

cgcctacggg tccttcagca gccgagacta cctcagcgcg cagcgtctcc gatgccggca 240

gatgtacttc cacgagaaga tcttcgagac ggccgacgcc atcgtcacgc cgatgacagg 300

ggtgaccggg taccacctg aagaacaagc gctgaaggac ggggaactgg actacattaa 360

cggaaactgcg ctggtgaagg acttgatcgg gggcaacttc ctggggctgg cggcgatcac 420

cgtgcccgtc gggtatgaca gggga 445

<210> 28004

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-D2

<400> 28004

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ctcggtagtt tgtcaccagc cgagtctaaa cccacaccag ttgtacctaa ggacatggat 180

ctgctcgacg gtttgtcatc aaatacatct atttctggac atgagaatac aaccacacca 240

tcaataacag cttttcagag tgcaaccttg aagatcacgt ttgatttcaa aatgaagctt 300

ggaaaccac gagagactac aattcatgcc acttttacca atttgacatc tagtactttt 360

acagatttta tttttcaggc tgctgttcca aagttcatcc aattgagact ggatccggct 420

agtggcaaca ctgttccagc taatggaagt ggttcagtc 459

<210> 28005

<211> 80

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-028-Q1-K1-D3

<400> 28005

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gccattgggtt nnngtgtttt 80

<210> 28006

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-C10

<400> 28006

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gacacagtgc atgggggttta tacaccacca tctacgtatt caaatggtac cagtgcctta 120

tctggccctc caggaccacc attttttatg gtgtactctt atgagcaagg ctcaaatcat 180

gctgcttcct catctgaacc aattgaattt ggatctcttg ggccacttcc tgcagcagat 240

ggtgatgaca taccaaggtc gacacgcaa gtaatgccta atgggtttta tgggcaatga 300

cgtggtcgat ataggggtgg ttcctctcat tcatctactg atcaaccatc ctcgcctcag 360

cctcgtcggg agttgagtct tcgtatgatg gcttgatcac ttcgtatgaa accttgcgat 420
agcaatattt tggtagaccc cttgtgatca ca 452

<210> 28007
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-028-Q1-K1-A5

<400> 28007

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ggagctcaac atggacctgt tcaggaagtg catggagcct gttgagaagt gcctgagggg 120
tgccaagatg gacaagagca ccgtccatga cgttgtactt gttggtggct ccactaggat 180
ccccagggtg cagcaactgc tccaggactt cttcaacggc aaggagctgt gcaagaacat 240
caaccccgat gaggtgtcgc cctatgggtgc tgctgtccag gctgccatcc tgagcggtga 300
gggcaatgag aagggtgcagg acctgcttct gctggacgtc acccctctgt ccctgggtct 360
ggagactgct ggaggagtta tgacagtgct gatcccgagg aacaccacca tcncaccaa 420
gaaggagcan gtattc 436

<210> 28008
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-A6

<400> 28008

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agggctctca caagcgagga ccaagaagat cgtaattctc tacctgaagg tgtgctcaac 120
ttctcgatct ggtactaatt cactacaacg tactgtgctt acccaatata tgatttaata 180
atcatatata ttctctcggt cctggatgac atcgacactg attcctgttt atcatgatcg 240
agcagcagta cgtacgcgca gcgtatgctc atcttattgc gccatgcatg atcatcatca 300
tcatacatca acaattgcac acacttcgtt tgctgcacat gcgatcgccg tgcttcctat 360

cgtatactgc ctgattctgg ctgacaccaa tcacaagcag atggga

406

<210> 28009
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-A8

<400> 28009

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ttccgacacc aacgaggacg gcgggggatga gatcaaggaa gcagctgctg cccccaaaga 120
atccgcccc gagggccagt aagacgatcc gatctccga cctgatgctg gtctgctgat 180
gtcggggagt ttaccaggac tgtgccgttc ttgatttctt atagcttatt ttctagtaca 240
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tgccattgcc attgccattg ccgctgtttt taattaagca cacactctag atgttatgcc 360
cgcatgctat gtttcgattc tcaagttgat aaatgatggc tggatgctgg ttttcgtgct 420
ccaagcct 428

<210> 28010
<211> 399
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-028-Q1-K1-A9

<400> 28010

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ggaggcaaga atacaagagc cctctttggt gtatgtctgt gtacttcggc aatcaatcag 120
ttgacgaaaag gaaggaataa agaggaagag gactcggagc tgcagagctt ggctgcagag 180
gtactgctga agaattacaa gcagcaggct ccatcaaagg cgccccttat cagcagcatg 240
ttgaagaaca tgaaactcag ctgataccaa ccagctccac acattcagag tggcctgatt 300
tgatagatag ttaagttaaa ttgatgtggc ttaatatatg ctntgttttt ttataaaaaa 360
attgtggcac caacattggg caggcttaaa agtagatgc 399

<210> 28011
 <211> 454
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-028-Q1-K1-B10

 <400> 28011

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 tcgctgcgtc cctcctcgct gccgacgcgc ggccgtgcca caccttcttc gtcgccttcc 180
 gcgcccagcc caaccccagc agaggcgacg acgctgtacc ccaccacctc gccgcccgcc 240
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 tgcaccgtcc tcaaggccaa cgtcctgggc atcaacctca acctgcccac caacctcagc 360
 ctctcgtca actactgcgg caggcgcgtc ccctcgggct tccagtgtt ctgactatca 420
 cagccccatc gatcgatcga tctggaggct aaat 454

<210> 28012
 <211> 446
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-028-Q1-K1-B11

 <400> 28012

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 tactttctgt cggcctcgga atcggggcaa caccgttcat aagcattcta cgggatctgc 120
 ttaataacat taagatagct gacgagctga tggacttggc aatggagacc agcaggtctg 180
 aagacagcgc caacagcttt agcgtctcaa cggcgagtag caaccggaag agagcataca 240
 gaacaagccg tgcacatttc tactgggtca cccgagaagc cggatccttt gaatggttca 300
 aaggggtgat gaatgaggtt gcagaaatgg acaagaaggg tgcatagag ctgcacaatt 360
 acctcactag cgtttacgag gaacgcgacg cacggacaac tctgctgtcc atgggtccaag 420
 ctctgaacca cgccaagcac ggcgtc 446

<210> 28013
 <211> 452

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-028-Q1-K1-B12

<400> 28013

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 agcgtcgggg ccgtggaggc gctcaaggac caggcggggc tctgccgctg gaactacgcg 180
 ctgcgctccg tccaccgcgc cgncaaggcc aacgctccca gcttcgcgca ggccaggaaa 240
 aagctggcgc cgcccgcgc ggacaaggcc gccgcggagg aggggatgag gaccgtcatg 300
 tacctcagct gctggggccc caactagcta gggcctctgc tagtttcggc ttctgcaac 360
 cgtaccgagc tcggcttcaa atctgatcca tgactgggtg ccttgccgac cactgtaac 420
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 <223> Clone ID: LIB3067-028-Q1-K1-B2

<400> 28014

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 tggcgatggt tttgctgaca ttgttgggag gaggtatggc tcagcgaagc tgccattcaa 360
 tcggaagaag agctgggccc ggagcatctc gatgttcatt tctggtttcc tgctgtccgc 420
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<210> 28015
 <211> 428
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-B4

<400> 28015

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atcgccgcgc agctcaacta cctcctctcg cactccaagc tgcccattag ggtggtacag 180

atctggtccg gctgccgcaa cggtcgccct gccgatcggc tcaggctcgc catccccctc 240

tgctcgcact acgtccactg ggatttcgtg tacaatgcgc tgtctcccaa ggtggcacca 300

gacgtggtgt tcggtcggga ggatgagagg ttccagccgc tggtcgatta cgctgctgct 360

ggaaatggcg ataagagctg cttggcgcgt tgggattgcc gcgccccga gggactccat 420

gcgctcgt 428

<210> 28016

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-B5

<400> 28016

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ctccgtcttc gctccctccg cagcgtcaga tcggccgtcg ctgcgcgagc cctagcgccg 180

ccgatctcag tccgtaccag tcttgcaa at cggggtcgcg ccgcggcggc aagaacgatg 240

gccgaggagg ccaagtatct ggagacgggg cgggcccacc gctccgtgtg gctcatgaag 300

tgccccccgg tcgtctcccg cgcttgcaa gccgccttcg ccttcgcctc ttctccgac 360

gccgctaacg ccaaccccg tgtc 384

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<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-B6

<400> 28017

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gttccccctt tagattgaga ctatgaatga tcgtatgcta atgatgtctg gtgcacagta 180

cattgcgctt gttaaccact atgtacatgg cttatttagt gatagtgtaa tcaactcaact 240

gtcggttgac cgttcaagtt cataacattg aggttctttc tttgctgcat tgggtctctaa 300

agagccacaa catctgggca tctggctcta tataaggcgg cgttccttgt agcttcacac 360

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<210> 28018

<211> 441

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 28018

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gggacgacac cgtcgcaggc ccgcgcccgg acaccgggct cggccgcctc cgcaagcagc 180

ctgtgcgtcc cgccgccgtc aagatcagtg atccggccgg ggacgctgcg gcgttcgtgc 240

cgccctcgcc ggcttcgggt agcaggaga cgccggtgaa ggtgacgcgc agcatcatga 300

tcaagcgccc cgcggggtac ccgtcgtcgc cgaggagcgc ggcaagcacg ccgncggcct 360

cgccactggg gactaccccn gccatctcgc cgtttgccgg cgccggtggt cggttcagaa 420

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<210> 28019

<211> 423

<212> DNA

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<223> Clone ID: LIB3067-028-Q1-K1-B8

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ggccgctacg cgcagcgcgt cggcagcggg gccccgtct acctcgcggc cgtcctggag 120
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 cgcacgtcc cgcgccacgt gctgctggcg atccgcaacg acgaggagct cgggaagctg 240
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 cccaagaaga cggcggagaa ggcgtccagc ggcgggagca aggaggccaa gtcgcccag 360
 aaggccgtca agcccccaa gaaggcatag gggttggagg cggatccgat tgtgtcatgt 420
 gta 423

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 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-B9

<400> 28020

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 agatgggtgga taaggctgag ttgaggcctt ggcaaggcac ttgccagcat ttaattgggtg 180
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 gcaagttccc accttttgcg gaccggttcc ctccttacat tgccaagtat gggacagttg 300
 aagatgcaag gaactttttc aaggcattga cagtgaaaac ttctccagca cctgctgcct 360
 acctgcatgt tctcaagttg ttcttttgcg gaggaagata ttctgaagct caagatttac 420
 tgtacaaatg ccctatttac a 441

<210> 28021
 <211> 270
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-C1

<400> 28021

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agctgtggta cgacaccgtc gcaggcccat gcccgacac ctggctctgt cggctccgca 180
 agcagactgt gcgtgccgtc gccgtcaaga tcagtgatcc ggccgtggac gcttcggcgt 240
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<210> 28022
 <211> 451
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-028-Q1-K1-A4
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 ggaggtggag tcctcggaca ccatcgacaa cgtgaaggcc aagatacagg acaaggaggg 180
 catcccgccg gaccagcagc ggctaattct cgccggcaag cagctcgagg acggccgcac 240
 cctcgccgac tacaacatcc agaaggagtc caccctccac ctggtgctcc gcctccgagg 300
 tggcgccaag aagcgcaaga agaagacgta caccaagccc aagaagatca agcacaagca 360
 caagaaggtg aagctcgag tgctgcagtt ctacaagggtg gacgacgcca ccggcagggtg 420
 acccgnttc gcaggagtgc cccaacaccg a 451

<210> 28023
 <211> 464
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-027-Q1-K1-G9
 <400> 28023

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 aaaatatccc cagatagcta ggctcggccg ggacgtacgc atggagggtg aggaggagct 120
 gcctgctagc gctgatctta ccggtggctc aaagcaggcg accactacga cgcccttcta 180
 cctcgctta gatcacacag cttccgccag gtcgtctcca ccgccggcag aggcgccgcc 240
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tatgtccac ccactctatc cggctgtctt gagagccttc atagactgcc ggaaggctcg 360
 agcgccgcca gagattgtcg gccggctttc cgccctcgct gatgacgtcg aaatgaattc 420
 agacgacaga caagaacagc gacgagcagt agaccagag ctcg 464

<210> 28024
 <211> 419
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-027-Q1-K1-H1
 <400> 28024

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 cagcagggca ccgtctgggc ccagagcgcc gcattcccgc tgttcaagcc tgaggagatg 180
 gccaacgtca tgaaggactt cgacgagccc gggttcctgg ctccgaccgg cctcttcctc 240
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 ggatctggag gcataaccgt gaagaagacc ggtgaggcgc tgggtggtcgg catctacgac 360
 gagcccatga cccccgggca gtgcaacatg gtggctcgaga ggctcggcga ctacctcgt 419

<210> 28025
 <211> 274
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-027-Q1-K1-H10
 <400> 28025

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaataaaaaa aaaaaaaaaa aaaaaaaatg 180
 ataaaaatgg gatgcctcct aatggattca acaaattatt acttggacat tttatcccaa 240
 aactattcat tagagctact taaattaatt tcac 274

<210> 28026
 <211> 384
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-H11

<400> 28026

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gtcatggtgc gccgcgccgc gcccgactgg ctcccccttcg tgccgggagg gtccttctgg 180

gtgccccgcg tcgcgcgtcc gcacggggtc gccgagctcg ttggccggat cgcggtctgt 240

ggggggcacct aatggggcgc ctttgccgtt tgggtgctcg tcgaagtctg attctttatt 300

tctctttttg attaagtttt cttattttct tttttgtttt attttttttt tgtatggatt 360

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<223> Clone ID: LIB3067-027-Q1-K1-H12

<400> 28027

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cgcccgaacc gctccccgtc gtgccgggag gg 152

<210> 28028

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-H2

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tcttaagttg tgtggaatgc tcatgctgta gcagcgtatc catggacatc ataccatttg 240

gaaatgatta tgtgtgtgaa gatccatcag catctgaata tattgcttct aatggacttc 300
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<210> 28029
 <211> 307
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-H6

<400> 28029

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 tggttccatg ctctcttcgg ccatctccat gtcaatttgc ttgcaaaca atataatatac 180
 agcgtgccgt gcccttgtag atttccaaat gggtatatgc atatgtacta ttgaaattgt 240
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<210> 28030
 <211> 437
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 28030

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 <211> 450
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-A10

<400> 28031

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 taaacaaagc cagcacattt ggcatcattt ggctatgttt ttccgagatg aactgttatc 180
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 gtcaatatcg ccacattgtc tggctgagga ggaggagaat gcaaccgagc cacctcagtc 360
 ggtacaaaga ggcgtcaccg agctgggtgga agcggcattg tcgtccagga acctgtgcat 420
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<210> 28032
 <211> 346
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-A11

<400> 28032

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 ctaaacaag ccaacgcatt tggcatcatt tggctatgag cttcccagat gaactgttat 180
 cttcttcgtg aaagcggcct cggggcattt catcagtcct tgccgctgat ggaatgatca 240
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<210> 28033
 <211> 451
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-A12

<400> 28033

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tcctaaacaa agccagcaca ttggcatca ttggctatg tttttccgag atgaactgtt 180
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gtcggtaaaa agaggcgtca ccgagctggt ggaagcggca ttgtcgcca cgaacctgtg 420
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<210> 28034

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-A2

<400> 28034

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<210> 28035

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-A3

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gacagtagcc gtatacctga agctgcacta atggcgcgat cgtatcttcc tagcaaagta 240
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<210> 28036
<211> 382
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-027-Q1-K1-G8
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<210> 28037
<211> 481
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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 ttttaaggaa cttgtgatgc tctggctcct tgtgccattg ctgagggaca ttcctaggnn 420
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<210> 28038
 <211> 400
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-027-Q1-K1-F4
 <400> 28038

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<210> 28039
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 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 28039

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<210> 28040
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-F7

<400> 28040

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 gctagtacct agtgtttgct gctgtctaata gacattatgc aatgtgatct ggaccctggt 240
 ttcttgggtg cgacgcttgt agcagccgtc ttatgattat ttgtcgggaa aatttggggg 300
 ctccccatat gagatgctgc cgggcaagac ctgcctatcc cccacctcgt ttcaggcggt 360
 ggacgctgga gcctgggtccg gttgggttgg gaagcccctt aaactggtgt cgc 413

<210> 28041
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-F8

<400> 28041

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 gttgtctaata tgcttattct agaggctttg cttgcaagca accaagcatg tgtgttggat 180
 ttatcatcct gtctagtatg atggaccctg cttggatagt atgactaata tgtagagcaa 240

agctagtacc taaaccaaga tttttggtta ggggcatgta tacaggatta tagccgatac 300
 tgattgctgc cggttgctgc tgctggaaca atggcagaga atgtataatc gggctgttat 360
 tggttcctaa atttcgtgat gtggagaaat gtaagacgag aaccgc 406

<210> 28042
 <211> 380
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-027-Q1-K1-G10
 <400> 28042

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 tggctctgggc actcccttag accttagtac acatgttgaa tttgtttggc tgagttctat 120
 ggggtgctttg gataagttct ttaggatttc gtatgtgtta acatgacatg ttatctgacc 180
 cttgttttaa gcagtcgtaa atactactta tgtttccttt tctgtggtag ctttctgact 240
 tctgagtatt gatgggttga tgtactatgg acatatcttc acacagagct tgagatggac 300
 tcccccaaga tctctgaaaa tgaagatggt gggcatctga tcacacccta agaagcctgc 360
 atccgcatag cataggtagt 380

<210> 28043
 <211> 459
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-027-Q1-K1-G11
 <400> 28043

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 gagtatcact aactcggttg ccatgatcca gccttccttg atatcatttt cttttgattc 120
 acctccatct ccggtgtttc tagatgtggc atcattagcg gcagatcgta tactgctact 180
 tgatgcgtac tttagtgttg tcattttcca tggcatgaca attgctcagt ggagaaacat 240
 gggttatcag aaccaacctg agcatgagca atttgcacaa ctattacaag caccacacga 300
 ggatgcgcag atgataataa aaggctcgatt tccagttcca agactagttg tctgtgacca 360
 acatggctca caggcaaggt ttttgttggc taagctgaat ccatcggcca catataactc 420

agctcatgat gttgctccag gttccgacat cattttcac

459

<210> 28044
<211> 145
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-G12

<400> 28044

agtaattatg aggtttccat aaggaggagg aggagagagg agacgatagg gacttcgtac 60
ggggtcgttc gcttgtgggt tcttcttccc tcttggttc ataaagggtg actaatggta 120
gaacaatggt gtcaatctca gtcgt 145

<210> 28045
<211> 464
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-027-Q1-K1-G2

<400> 28045

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ccccttcatt gtccttatca tcgccattct caacgacggc actatcatga ccatctctaa 120
ggacagagtt aagccgtctc cggtgcccga cagctggaag ctgaaggaga tctttgccac 180
gggtatcgtg cttggaagct acctcgctct gatgactgtc attttcttct gggctatgca 240
caagaccgac ttcttctcgg acaaattcgg tgtgaggteg atcagggaca gcgagcatga 300
gatgatgtcc gcgctgtacc tncaagtgag tatcgtgagc caggctctga tcttcgtcac 360
ccggtcccgg agctggctct tcgtggagcg ccttggtctg ctcttggtca ccgcgttcct 420
gctcgcccag cttgtcgga ccttnctcgc tgtctacgcc aact 464

<210> 28046
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-G3

<400> 28046

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ccgcgccatc tcgcgtgtgt cctgccccctg ctctgtgtgg cctcgccggc ggccacgcgc 120

ctggcggtccg ccgcctgcgc gggcgagaag ttcccggcgg gccgtgcgta cgcgtcgtgc 180

gaggacctgc cgaagctggg cgcgtcgtgc cactggacgt acgacgcgtc caagagctcc 240

ctgtcgggtg cgttcgtggc ggcgccccgc gcggctggcg ggtgggtggc gtggggcctg 300

aacctacgg gcgaaggcat ggccggcgc 329

<210> 28047

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-G4

<400> 28047

cggacgcgtg ggcgacgcgc tgggctgacg cgtgggcagg tcggaagtt tctgtgcggg 60

actgccgagc gagaacgaga agacaagagg aagccaaaag gagaaccgag ttcgggaggg 120

agcggatggc aatggctctg cttccgtat tgctctcggc cctcatcgtc tctgtcgtcg 180

cgcagtcgcc ggctcgtcg ccgtccgcgt caaatgctcc tccggtcagc gcctcggctc 240

cgcggggctc tgtcgcgcca ccgacaacgg cggctcggc gccgcagggc tctgtcgcgg 300

caccgacgac agctgcggcc tcggcgccgc aggcttctgt agcgccaccg atgacaacgg 360

cggcctcggc gccgcagtc tctgtcgcgg caccgacaac ggcagcctcg gcgccg 416

<210> 28048

<211> 444

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-027-Q1-K1-G5

<400> 28048

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gaatctgaga gagagagggg aaagggcgaa ggaggcgcgt gcaggcatgg gctccccctc 120

ctccctcccc gcccgggcgg cgctcgtgct cctggccctg ctcgccggag cccagtgccg 180

cgaggccag ttcgacgccg cggacgccgg cgcggagaac ttcaacacca gcgaggccgc 240
cgtgtactgg ggcccctggc agaaggcccg ggccacctgg tacggccagc ccaacggcgc 300
cgggccggac gacaacggtg gtgcgtgagg cttcaagcac accaaccagt accccttcat 360
gtccatgggc tcctgcggaa accagccatn gttcaaggac ggcaagggat gctgctcctg 420
ctacaagatt cggcgcagga agga 444

<210> 28049
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-G6

<400> 28049

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cggaaagttt ctgtggcgac tgcctaacga gaacgagaag acaagaggaa gccaaaagga 120
gaaccgtggt cgggagggag cggatggcaa tggctctgct tccgctattg ctctcggtcc 180
tcacgtctta ctgcgtcgcg cagtcgccgg cctcgtcgcc gtccgctca aatgctcta 240
cggcagcgc ctccggtccg aggggctctg tcgtgccacc gacaacggct gtctcggcgc 300
cgcagggctc tgctcgggca ccgacgacag ctgctgcctc ggcgccgcag gcttctgtag 360
cgccaccgat gacaactgca gtctc 385

<210> 28050
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-G7

<400> 28050

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tggaagggtt cttatgtgc taggtcgagg gccaccacca cctcaccttc gccgtcatca 120
tcggccacga cggcaccgtc tggggccata gcgccgatt cccgctgttc aagcctgagg 180
agatggccaa cgtcatgaag gacttcgacg agcccgggtt cctgggtccg accggcctct 240
tcctcggccc caccaagttc atggtcatcc agggcgagcc cggcgccgtc atccgcggga 300

agaagggatc tggatgcata accgtgaaga agaccggtga ggcgctggtg gtcggcattt 360
acgacgagcc catgaccccc gggcagtgca acatggtggt cg 402

<210> 28051
<211> 440
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-027-Q1-K1-F2

<400> 28051

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gatatttttag caataccttt gagcactgtt ctttcggagt ttgcgttcag cgctggtggt 120
cgtattcttg atgataatcg aagcacaatg acaccagaaa cacttgaatg ctttgtatgc 180
tgtaaggatt gggttatatga ataccctaat attcaagctt agttgatctg acttccttca 240
aacatgttca acagtacggc attcaaggga gatttatgca tcattcggtg ggctcctgta 300
gctgcttagg gatgaccctt ccactgctgc tagcttcaag ctagatcaga tactctntct 360
actgatacgc atggtgtaaa actgccgtgt tatgtggtag atcgggtgtgt gtactgggtt 420
ccttatgtgt aaaactgact 440

<210> 28052
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-D6

<400> 28052

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ttggaaggct tgaattgggc tctgattcgg tctgctgctc caccagagac acaaccttgc 120
aacatcgtga ctcttgccaa agagcggaaa tagtgctaaa ctgtaccaga acgaaactaa 180
ggaacttaac actcaaggct ctctcagtcg cttctgaact tcaagcactt gcatacaatc 240
tgccgttatt tcgaaagagt caggatgtat cccggttgcg aacat 285

<210> 28053

<211> 378
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-027-Q1-K1-D7

 <400> 28053

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 aggccgagcc gtctaggtta gtcccgtccg gtctcctgcg tccggcgacg gactgcctgg 120
 cgccggcgaa tcgatgggct actggtggca ccgcgtcgtg ctgccggtgc ggccggcgctg 180
 gctcggcgtc gcgtcccgtc tcgggggttcg ccaaaccggg ctgtggaggc tgcggcagga 240
 ggtgagcacg tgcgagtacg aggacgtgca cgtgatgtgg gagatgctga gccgnaccac 300
 ggccggcgcg ccggcgcccc cgcccactag gcggcagcac agccgggttc ggccgcagcc 360
 gctgccgtgg tgcgacag 378

<210> 28054
 <211> 227
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-027-Q1-K1-E1

 <400> 28054

 ttctctccac tcttccgccc actcttctta aataataaaa caaaacaaaa aaaaaaaaaa 60
 aagcgaggca aaataaaaaa aatcccaaac aaactactac ataacaacaa caaactaact 120
 aacaccaaca aaatccatac tctactaatg tcaaccaaac aattctacct cttcaagcta 180
 tccaatctcg tcatctcttc ccgcttctaa tttctccaaa cctatct 227

<210> 28055
 <211> 163
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-027-Q1-K1-E11

 <400> 28055

 gtgcctggaa ttaagtcttt aattggctta actttgtgaa ataactacta ctcttttact 60
 tgccatgcac aactacagat aacgatagag ttacaattgc ttacccatat tgcacatat 120

atttgcaac gttcaacatg gtatgtcttt atttgtgtga ctt

163

<210> 28056
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-E12

<400> 28056

ctttatatag ctgaggattg tcaattgtgc ttgtatatat agctgactag ctgaggatgg 60
gggacctctc atcttcaatt gtgcttgttt ataactttat atagctgagg attgtcaatt 120
gtgcttgaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaata 240
aaaaaacact aaaataaaaa aaaaattaat tttaaaaaaa cacattaaat tacaataaaa 300
caaaataata tctctcattt tttatataat caacacctat tattctccta tttctctata 360
tttttta 367

<210> 28057
<211> 456
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-E3

<400> 28057

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gccgtcgccg gcagatctgc gccggccggt ctgctccgcc cagcggacat ggaccgagac 120
ggccgcccgg ggtggctacc gtcgctggga ttgccttcc tcagcttcaa ctgcgggatg 180
gccgtctacc gctcctggga cgaccctac gccgtcgct tcgtcctcgc cgcgtacgcc 240
gccctcgtec tctcttccg ctgcctccac cttctggagc gccgtcggga ccagcgctc 300
aagctcgccg tctggggcct ctccacgctc ctcacactca tgttctcgta caagatcgcc 360
gccgtgatgc cgtcctgggc ccagctgctc gtctggggca tggggatcct caccgtcggt 420
gcgggattct acgccttctt cgtcgcccgc ccggag 456

<210> 28058
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-E4

<400> 28058

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gctacatgaa gcatgtgacg acatgtgctt cagaaccgat aacctatata ttacgatctg 120
tcgctacgag ctccagttgta ttggactact tcattaccgc gccaaaatgc tcgtgcgtat 180
gtctgcaatc tacctcctgt aactgatgaa aatatgttgg ctgaatatct tgccaccata 240
tgcttgctaa agaaggacaa atggactggg cgtccataaa tctggatata cagggacaaa 300
gtttactaat gaaccaaagg gtgatgcaac agtcacctat taggattcac a 351

<210> 28059
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-E5

<400> 28059

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cggacgtgta ccagtgtttc ccccatctga agaagtgaaa ggccctgaact tagcaaccag 120
cgctggtttg gtcactacga tcggggccagg gggcgcttct tgtgttgagg gtgttcattc 180
cgtgttatct tcccgtcagt catgcgtcct gtcctatgtt aacctacata agaaagtgat 240
gtgggtgtcca ctttttagtga aactactgtc tgctgttaaa acctggttgg tctcagaacg 300
atgattttcg tgtgc 315

<210> 28060
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-E6

<400> 28060

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cacgggcacg taactagcta gctagctagc agtcgtagaa tgacgatgag gggctctctct 120
 gttgcggtcg ctctggctcg ggtgggtggcc gcggcctgcc ttgccggggcc ctcgggggcgc 180
 ggacggcgcg ggcgagtgt gtgcgacgcc gtcggacacg gtggcgctga ggctggcgcc 240
 gtgcgctcg gcggcgagg accccggctc cgcgccgtcc ggctcctgct gcacgcgggt 300
 gcacgccatc gggaagcaga accccagggt cctctgcgcc gtcattgct 348

<210> 28061
 <211> 463
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-E8

<400> 28061

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 ttcgccgtaa cgagatcaga tggctgggta tatgtcaaga gggccccaaa atggttctgt 180
 gtatgtctgc aatctacctc ctggaactga tgaaaatatg ttggctgaat attttggcac 240
 cataggcttg ctaaagaagg acaaaaggac tgggcgtcca aaaatttggga tatacagggg 300
 caaagttact aatgaaccaa aggggtgatgc aacagtcacc tatgaggatc cacatgctgc 360
 ttcagctgct gtggaatggg tcgataacca ggatttccat gggagcacta ttcaggttca 420
 catagctgag tcaaaaagca aagatgcatt ccataacccc acg 463

<210> 28062
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-E9

<400> 28062

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 gcttccgagg gtccactcaa gggatatcatg ggttatgtgg aggaggatct ggtttctacc 180
 gacttccttg gtgacagcag gtcgagcatc ttcgacgcca aggccgggat cgctctgaac 240

gaccacttcg tcaagcttgt ctcgtggtac gacaacgagt ggggctacag caaccgcgtc 300
 gtcgacctga tccggcacat gttcaagacc cagtagaggg ttttccccct gcttctcatg 360
 gatggttgct gcttgtgtat gccgagaata aatgtggatg tcgccagggt catgctgagt 420
 ctggacatgt tttgcacttt t 441

<210> 28063
 <211> 340
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-F1

<400> 28063

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 tgctgccatg gttggcatgc ttgctgatcc gaaggaggcc agggctggta tcagggaaat 180
 ccacttcttg cccttcaacc ctgttgataa gaggactgct ctgacgtaca ttgatgccga 240
 tggcaactgg caccgtgtca gcaagggtgc tcctgaacag attcttgacc tgtgccactg 300
 caaggaggat ctgaggcgga aggtgcactc tattatcgac 340

<210> 28064
 <211> 422
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-027-Q1-K1-F10

<400> 28064

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 acgagggtcaa gcaggccctc cgtgagaaac tccggcgctc ctacggcgcc ggagctgcct 180
 ccgccacacc ggaggccagg ccggccggcg aaccaagccg tggcgctgag tgccgcggct 240
 cggcgggcca ggaccccata aggagagtca tgttcttggc tccttggggc cacacataag 300
 aacacatacc ggccggccga gatctgggca tgcaagcttg catggccatg tcttgggtcag 360

tcagatctgc anacaaccaa actgtataaa agaactggag cctgtcttgt aaatcatgga 420
ac 422

<210> 28065
<211> 258
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-F11

<400> 28065

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gtacaagatg gcgacggagg ggatgaacgt gaaggaggag tgccagcgct ggttcatgga 180
gatgaagtgg aagaaggtgc accgatttgt ggtgtacaag atcgatcagc ggtctgtcgc 240
tttgctggtg gacatggt 258

<210> 28066
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-F12

<400> 28066

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gaggaagacc aaaatggtgg gagcaatgca actactggag gtgctcggaa aaaaaagggt 120
gggcatgtaa gacaatcaag tgctactcat gatgccattg ataaaaatta tagtggcagt 180
tcagctgaag gtttaaggaa caagagacag aagtctgctg ctcaaagcgc ttcggtaggc 240
agaagggaag ggttgaggca acgatctgat gccaaagcaac atccagatgc agccgagggc 300
agtacagaac cactcgtgta tgtacctgga agcgatggtg cagctcaagg ttcaatgcaa 360
catggaactt cggctcctca taccgaaata aaagcgatgg tcaggaacat actgttcaag 420
gaca 424

<210> 28067
<211> 191
<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3067-027-Q1-K1-D5
 <400> 28067
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 ctttcatgac gtgactgttg actcctcgca acacaatgtg actgtgactg tcaccgtgga 180
 ctctacact c 191

<210> 28068
 <211> 489
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-027-Q1-K1-C1
 <400> 28068

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 tgttcaagtc caacacaatg aagggtggagt gcttgtcggg cagtccaccg atgggcacca 180
 gttgtgtgtc aaaagtgcc aaggacgtccc cgtatcacat tttatggagg tttatggaat 240
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 tcccaagggtt tttgatgagt tgtgcaagct ggcgagtggc aggttcaagc acctgttcct 360
 gtagagataa tcatcgcag gaggatcttc agccaactga agcttgtttg aaactgaatg 420
 gttcgccttn taatntaaga tttggctaca tgtntccttc attgcatgga ggaccttcag 480
 taccctgtt 489

<210> 28069
 <211> 215
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-027-Q1-K1-C10
 <400> 28069

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tgccctttat gcgtcctggt tttttatttg tcatcttctg ctgtatcatc ctttctttga 120
 actatatttt catgtggtac atgatacctt ttgttacctt cgccacagta ctgctcacga 180
 atagcatttt gagccatttt gctatgcctt ggaat 215

<210> 28070
 <211> 454
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-027-Q1-K1-C11
 <400> 28070

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 ggcattgtatg ggattatcag gcacacgccc atgttctca cgcaccgcgc ggatcccaac 180
 aagctcgtgt tcttttacca ggggtcaggg atgcagttgg gggctgaggg gtttactgtc 240
 gggttcttgt acacactcgt ggggtctcatg atcgtctgtg tgacacactt gttggtgaag 300
 gtggagagcc tgcagacaca ggccttgcg atgctcgtg tcatggtggt cngtggtgg 360
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<210> 28071
 <211> 424
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-027-Q1-K1-C12
 <400> 28071

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 ctgttcttgc ggaacgacct tctccaggaa ggacaagctt tttggacatg ttgcgctttt 180
 ccaaggccac acacctgcgc tccccgtgga agacggggat gtaccagaag gttcagagca 240
 gcctcaggac ggccaaccaa cgaatgaaat ggcgaggagc atggtgtata gtttcccgtg 300

tagctcgtct gatggtttat tgaacctcga catgaaaatg gctgatgacg tgcgtgggta 360
tctcttgccg cttagctttg ataatgcttt ggcgcggttg acgactttac tcggcctgga 420
tttg 424

<210> 28072
<211> 169
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-C2

<400> 28072

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aaaaacgaag aaaatataaa aatccaacta aaaaataaaa acaaataact aacaaaacat 120
tcaaaacacc caaccataaa ctactaaaca ataaaactaa acaacctaa 169

<210> 28073
<211> 468
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-C3

<400> 28073

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cggcaacgga ctacctacgg gctgggtggcg tagcacggtg cgacgggtcc ctttctaggc 120
aagctcgacg ggggcaggte cggtctctcc ccatcgatgg cgcgacggtg tttgggcat 180
gcggccagtg gatggcgcg gcccgaagcg aactctgggc tgagccagct tccctctccc 240
caagtgcag tgcggtggac tctccccctg accctctccc taggtgctca tggtcagcag 300
tgccaccctc atcccactcc tggccacctc catttggtgt gtagtggcgc cctcatcccc 360
ctcccagcct catgttcccc aattgatgta tgtgtgtcaa tttagtgatg atgtcgcttg 420
cctcatcatc taccggtctc actcggtgtt caaccgaac taggaatg 468

<210> 28074
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-C5

<400> 28074

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gggtggaaaa gaacttgaag ctggtgaatc agcagagatt gatgtggaag atgaaattgg 120
acacggtgat aatgaggata ctcaagctct tgaagactct gatgaggaaa tggattctga 180
cgaggaacag cagaggtatg atgccagct tgaagagatg cttgatgaag cttatgagcg 240
ctttgtaact aaaaaggggtg gtgaaataaa gcaagaacgc aagcgtgcaa aacgaataaa 300
tcctgacgct gatgcagaac tgtagaggg aggtgaagat gatggtgatg ttgaaatgga 360
tcaagatttt gatgaagatc aagatcaaga ggccaacccc cttctgtttg ccctagatga 420
agcagagcca ac 432

<210> 28075

<211> 455

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-027-Q1-K1-C7

<400> 28075

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tcccgtaggc cgtggtgccg ccgtcgactg ctgggactgc cctacaccaa gtgcccaggt 120
catcttcggg ccattcgccg ggcacgagca ccaccaggtg tgccaggttg accgagctat 180
ggacagcctg tggcatcttg gggacgagct ccgcgggcag cccaaggtgg tggaggaccg 240
ccagtggctc ctcatgacgt ccaagctggc ggagatcacc aggtccaagg gcgagaggat 300
gaacaccgtc cctgacgcca agcagtggga caagacgtcc taccagcttc acgacgacag 360
caggatgggc cacatcgcc tcatgaacct ggatctcaag atgaacgagg ctgccgncat 420
gaagctcccc ttccgtggca tgccgtataa catga 455

<210> 28076

<211> 266

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-C8

<400> 28076

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gtgggaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaataat aaaaaactat aactatataa taaagaaaaa 180

ttaaattgaa ctaaattgaac gtcaacacac acgtacatga caacgaaaac cctatcgтта 240

gacaacttat ttaaaattga gaaaaa 266

<210> 28077

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-C9

<400> 28077

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gggaaatgaa aaccctttcc aaactagctc taaaggtagt taaactaaac cccattttcc 120

aaagaatttg gaaaatctag ttcattctct aaatcaagat aatttaatac attcatttta 180

tacagccaaa ttaatttaag gtcattcgac tattatcctc cgttaccaaа ttgggttgta 240

cgctgggtgc ttgcatttca ttttatacac aaattatccc gaaccacgtt caactaaagc 300

acaatttgat gcatcgcaaa aacaaaacat aaaggcatga taacatcttc aatttcaga 360

caatgggtga atggtccttt agttgaggcc caactaatt 399

<210> 28078

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-D1

<400> 28078

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aaagccaata ttaacaaca acaactacta aaaactatcc tacaccaaaa acccaaaata 120

attcttccaa ccattctcca tcaactagca ccaccatttg ttccactttt acctaactat 180

ttacagcctg ttacatcttt tttactagct cctcattcag ccctagggtgc tttatgacct 240

acagtgatct ctcattgacat ccaagctttc ttacatcacc att

283

<210> 28079
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-D10

<400> 28079

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atgaccaatt aaccgcttca gaccaaataat tttagtggag gggtgccacc catatgcaga 120
ggatatgtgg aaatcagtaa agataaaciaa gttaacgttt caaggtgtga agttatgtgg 180
ccgttgcaag gttcctacaa ttaaccaaga cactggaata cctagcccta ctgaaccaac 240
tgaaactctg cagacatatc ggtcgggtga agtgctgctt cgtagccaca aaaacaaacg 300
gcaggtgtac tttgggcaaa atgcagtctg caaggaatct ctgtcagcaa atgtggaaag 360
aaggatcggc aaggtggggg atccagttta tgtgacacag tcgttccctt catctggtga 420
aagtccattc tgagtgaccg aa 442

<210> 28080
<211> 447
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-027-Q1-K1-D11

<400> 28080

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ttgattgata tccaaggac tcaggctgcc ccacctatgg caatggtcca gccacagttg 180
cttactgcag cacctgccac atacaatgac cctggtgcca tgcttgctgg attgctatga 240
gaagtaaaaa aacaaaagcc atagtgtttt gatgtacatg acagatgttg atctaactc 300
tccaaaagca tcttgctgcc aagacgaaca cgtggagcaa cgaaagggtt ggcggagtag 360
tcttcagctg gattctaaac cgagaaaaag ctagattctt ttgggcgggt ttgaggcctn 420

cttcccccttc atggagcagt ccccata

447

<210> 28081
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-D2

<400> 28081

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acgacctgag cagcctgccg tacctaaagg cgtccatgaa ggaggcgctg cggctgcacc 120
caccggggcc cctgctgctg ccgcactact ccaccgtega ctgccagatc gacgggtacc 180
acatccccgc caacacgcgc gtctctgtga acggctgggc catcggcaga gacccggcgg 240
tctgggagaa gcccgaggag ttcatgccgg agaggttcat gcgcgacggc tgggacaagt 300
ccaacagcta cagcggccag gacttcaggt acctgccgtt cgggtctggg cgccggatct 360

<210> 28082
<211> 65
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-D4

<400> 28082

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gaggg 65

<210> 28083
<211> 450
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-027-Q1-K1-B9

<400> 28083

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gagcgaactg cgagctgctg ccacccctgc tgccgcggtc gaccgccggc cccggaccga 120
gatggacgct cgggtgggcgg tgctgctcgc gctgctggtc gccagcggcg gcgtccgtgt 180

ctgcgccgcc gctggggcca agggcgccaa ctggctgggc gggctgagcc gcgcgtcgtt 240
 cccaagggg ttcgtgttcg ggacggcgac gtcggcgtag caggctcgagg gcgccgcgtc 300
 caccaacggc cggggcccct tcatctggga ttcattcgcg cacgtnccaa gaaatattgc 360
 aaggaatcaa aatggagacg ttgcaatgga tcaatcccat cgcttcaagg aaaacgtcca 420
 tctcatgaaa agtttgaact ttgatgccta 450

<210> 28084
 <211> 308
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-A10

<400> 28084
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 aaaaaaaaaa aaaaaaaatt aactattccc ttttttaata accaaaatta tttcaccatt 180
 aaattacatt taatatatta tttttttata tctattttta caaattttatt taccattttt 240
 taaaaactat ttaactaata aaacctttat aatccaaaca tttatttttt taaaaaaaaat 300
 tctaattt 308

<210> 28085
 <211> 247
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-A11

<400> 28085
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 cgtgttaaca tttattcagg ttagcctcat aattttttct catgcacaat agtgtgattc 120
 acttaaattt catactttca ttttgtcagg aaacatgctt caccatataa ctaaccatat 180
 cttttattag tgtactttgc catttgccct atatggcctt ttctatcaag ctcaacaatg 240
 ctaattt 247

<210> 28086
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-A12

<400> 28086

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taggaaaaac ctgcttttgt gttcgggttc acgtcgtgtc ctacgtggcg cggcgggccc 120
cgcctagtaa aggagcgtag gagcatcggt ttgtgttgtg gtcgaataaa taatgtgtct 180
gtgtgccgat cccgtgtcgg gttagtgggc cactgtcgg tgctgatgtg gcctgccttt 240
acagcacatc ggtggggctg ggccgtagag ctctgtgtc gtttaaatat atgtgtactc 300
tgtactgtac caact 315

<210> 28087
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-A2

<400> 28087

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cagaattgat ggtgctctca aggttggaca gaaacgtgga agattggttg cagatctaga 120
agaagatgaa caacctaaaa agaaggtttag attatggagc ccatcgggtc aatggatttc 180
agtttataat gctaggcggc ccatgaagca gaggtacat tacaatgtgg ctgactcgag 240
gctaatacaa catatagaaa agggcaacga tgatgggctt tacattagca gcgtgacttt 300
ctcagcaaac ctttgggcac tcatcatgga cgcataaact ggtttctgtt ctcagggtta 360
tgagctctca ccagttttcc ttcacaagga ctgtataatg aagcattt 408

<210> 28088
<211> 284
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-A3

<400> 28088

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agccagggtg gtactggagg tactggctcg tgccatgca atccgatgga gggcgagatc 120
agggacgagt accgtgaccg tatgacgctg gcattctcag tcatcccctc accggacgca 180
tctgataccg tggttgagcc atacaatgcc actctttctg tccaccagtt ggttgagaat 240
gcagatgagt gcatggttct cgataacgaa ctctgtatg acat 284

<210> 28089
<211> 259
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-A4

<400> 28089
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tccaggtct caagtacggc agcagccttc ccgtcgtccg cagagcacca ggagcctcgg 180
caacgtcagc aacggcggaa ggatccggtg catgcatgtg tggccggcct actgctacaa 240
gaagttcgag acgctgtca 259

<210> 28090
<211> 304
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-A5

<400> 28090
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taccctgacc gtatgatgct gacattctca gttttcccct caccgaaagt atctgatacc 180
gtggttgagc catacaatgc cactctttct gtccaccagt tggttgagaa tgcagatgag 240
tgcatggttc tcgataacga agccctctat gacatctgct tcaggactct taagctgacc 300
accc 304

<210> 28091
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-A6

<400> 28091

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ctcccaaggt ccagtaacca atgtttcttat tgtaacgcca caacgagtaa atctgccacc 180
gctacaacca ttacgcaaag ttcgggtctgc aaatggggag gctgaacggc aggcagtact 240
tcttcatcgg cctgaaaatg atgtcccaat tcctggaaat aagaccttca tttttatgga 300
gcgctacttg gatgagcttc agaagcatgg tggttcatcc aggttatttg attttgggcc 360
gaatgctcag aatggcactc caaaccaaca aggtacagaa tggagagata gat 413

<210> 28092
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-A7

<400> 28092

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cggcgccggc gccggcgggc ccgtggccgc ggcgggccaag tggcgggagcg acgcgtcgcg 180
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gttcgccgtc gcggccatct acgcgctgcg ggtctacatg gtgcagggct tctacatcgt 300
cacctacggg ctcgggatct accttctcaa ctttctcctc ggtttctctt accgcatggt 360
cgaccccgag ctcga 375

<210> 28093
<211> 92
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-B1

<400> 28093

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tgaagtcttt tgggacagca aggattgtga ct 92

<210> 28094

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-B11

<400> 28094

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aggctgctaa gaaccccaca gaactggatg gattgaggaa ggcgcatatt cgatatggtg 180
ccgctgttgt acagtacctt gcttggctgg ataatcagat gcacgagaac tatcgagctt 240
ctggatatatt cagtgaagata aaacgggtcac ataaaaatga acatttagca accaaactta 300
ctgacgcgtc tgtgagtgac aaacttgaaa gctatcgtgc aacataagag aactttaaag 360
gtttgagctt tcctacaatc tcattctgtg gaacaaatgc agcagctatt cactataaac 420
ctgaatcaag cacatgttcg gaaatgga 448

<210> 28095

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-B2

<400> 28095

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cgtggcggcg gctactgcaa ctctactgg aactggagga actgagcggg ggtgcccgt 180
cggccaagtt atcctgttcg ctaccgtgat gtttacccta gtccagatgg tttatcttcg 240
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gt 302

<210> 28096
 <211> 451
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-027-Q1-K1-B3

<400> 28096

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 gccctgtcat acttatctga cggcactaat gataagatcc aggctgtgat tgaagctggg 180
 gtttgcccc ggctcgtgga gcttctcttc catccatcac catcgggtgct tatacctgct 240
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 catcaagctc ttccccgctt cgtgaatctg ttgacgcaga accacatgaa aagcattaag 360
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 gtcataagtt gccgtatcat cgctcctttg t 451

<210> 28097
 <211> 312
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-B4

<400> 28097

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 ttgctgtggg catttgcttc agtcacttgg tgttcgatgg gcagggtgct gcacaatttc 180
 tgaaagcggt gggtgagatg gctagggggc tccctgagcc atcgatcaag ccaatctggg 240
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 cattcaactt tg 312

<210> 28098
 <211> 401
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-B6

<400> 28098

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caagatcgtg gcaccgtgct gcaaccaggt gttcccctgc cgacactgcc acaacgagggc 180
tacggcttgc ggagatcggc atacaatatg tcgtcaggat gttgaaaaag tagtttgcct 240
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agagtactat tgtgatatat gcaaattgta tgatgatgat acagacacag ggcagtacca 360
ttgcatcgac tgtggatatg cagggttggt ggcaaggaaa a 401

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<210> 28099

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-A1

<400> 28099

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agctggccac caaggcggcg cgcaagtctg ccccggcgac cggcggagtg aagaagcccc 180
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tcatgcc 427

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<210> 28100

<211> 457

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-026-Q1-K1-G3

<400> 28100

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aaccaagtca tgcaggaggg cttgggcaag cacaacatca tctgcattga ggatcttggt 180

cacgagatca tgactgttg cccacacttc aaggaggcga acaacttcct gtggccattc 240

aagttgaagg cgccgctggg aggcctaaag aagaagagga accactatgt tgagggcggt 300

gatgctggta accgtgagaa ctacatcaat gagctcatca aaaggatgaa ttaggttcac 360

gatcgagctc attgataccc tgtgctctaa gtgactngtg ctantcctat tttatattag 420

aaaggtggat cgntgatgaa tatgcatgca agtttga 457

<210> 28101

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-G4

<400> 28101

cggacgcgtg ggggcgccaa gactgggcct ggtgatttta ggcttgatgt tgcttggatc 60

aaagcgttga gagctttgtg aactccacaa gtcatagttt tatttcacat cggccctttc 120

cttctttatc accctgcccc agtggcgccg ctgaactcat caccgacca caaccacagg 180

agtaaccata gcacagattg ccaactcctt tatgcactta ataatggatt ttgttttgct 240

tctgaggttt atgaataagt ggtagaaaaa tggagcattt agttaagggtg ccccttttgg 300

acagatgttg ctttttctct ctctctagta tctgatcggc cgataaaacg agtgcattcc 360

accgggacga taatgcgaga gtaggattca gtttaattct 400

<210> 28102

<211> 445

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-026-Q1-K1-G5

<400> 28102

cggggggtca ggcccgcgcg gttccccctcc tgctccgcaa caccgcctcc ctgcggacct 120
 ccgtctccgt ctctgcacg ggctcccgcc ggagctgggt ggcgggcgcc acggcggagg 180
 gggacgagac ccgcggcttc gacaagggtgc ccatggacac ccccggcgcg taccgcctgg 240
 tagaccggga caccggccgc agcgtcacg tgtggggcgg caccgacgac agcgacgagg 300
 cctccatgcc gtccccggcg gtgctcttcc ggaccaccga ccgtcgtcac agccaatgtg 360
 tttggggagg tacaggatat gggaatttct gcaggttcaa ggcacatgaa ataaaaatcct 420
 tggtcacgag gtcagctcac cgc 443

<210> 28105
 <211> 115
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-G9

<400> 28105

tacgagtata cctacgtgta tcgaggagtg tgggatttgt gtttgtgctg cccaaacagc 60
 aggatgctag aaaaaactca aagatattta agttaaaaat ttttaattctt ggatc 115

<210> 28106
 <211> 444
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-026-Q1-K1-H1

<400> 28106

ggttactttc aatcaatcga ctctacctgg ttgggtgatg gcagttgcgt ggctattgta 60
 tgtgatttgg ctatgggtct cattcaaaga accgaaccgt gctactgagg tgaatgaagc 120
 cccacaaaat cctgcttctg gacaaacggt tgatattgga caagtagaga atggacttgc 180
 tcagcctctg ctcatggatt ccgtagataa acaaaatgaa gatgaagatg aagaagttga 240
 tgaaagtga gaagctgcag atgattcacg caagcctgca acatcaattg gctcagcata 300
 cagactgctt actccatcag taaaggcca gttgttgata tacttcatgc tgaaatacgc 360
 aatggagatt ttgctttcag agtctagtgt taccactaat cactatntca gttggaacac 420

atgcgcatg gcaatcccc tagc

444

<210> 28107

<211> 267

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> . Clone ID: LIB3067-026-Q1-K1-H10

<400> 28107

gaagaagata cagcggtaaa gacgctgccc attgtgtcaa aagaatgggtg cccttgacgt 60

gtgctgcggt tttttctaga aatataatgc gttttaatta ctagttggag ggagacctgt 120

cttgttcaat ttgttcatgg accanaagca ataatctatc tgtgtgtagc tggattgggtg 180

ttatgcgatg tccccaccg tgtgtcccag aatctacttg gtgattttat cccagtgttg 240

ttaatcaagc ttgtgtgatt gtttaagt 267

<210> 28108

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-H11

<400> 28108

cacaaagcgc cgctgctgcc ccatcgaaca tggctccgaa gaaggataag gccccgcccc 60

cgctgctgaa gccccccaag tccggcggtg gcaagcagaa gaagaagaag tggagcatgg 120

gaaagctaaa ggagaagggtg aacaacgagg tgctgttcga ccaggctacc tacgacaagc 180

tgctctctga ggtgccccaa tacaagcaga tcacccccct catcctatcc gagcgctca 240

ggatcaatgg ctccctgggt cggaggggcta tcaaggacct gatggcgctg ggcctcatcc 300

ggttggtctc ggttcactca agccagcaga tctacaccag ggcaacaaat acctaaggat 360

gggattccct tgtttgccct ctctgtagga gctcgtcttc tttagaacag ttgccatctc 420

tgtcaagagt ttgctaatgc tatgttagat gagtttagtt tgg 463

<210> 28109

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-H12

<400> 28109

gcggccacgc cttcgaactt ggagcacaag ttcagttcgc cgtactcttg gtagcttgga 60
tgaaatggta ctagcaaacc actaccaaag gtacacaaaa ggctcgtggc aacttcagct 120
tctgcttggc ccggttctgt cagcaaagat catcttcggg tcgaggggtg acagaatctg 180
gggcattgac ataccaccag attctgtcaa cccttaaatt cagagatact tg 232

<210> 28110

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-H2

<400> 28110

tcactcgta cgcctacaca tatectctct acctggctca atcactaaac accacttaca 60
tatatggagg gtagggctcc atatgcctaa cgcgcttgcc actacctect tcataacata 120
ccaatatcct agcacacctc acgtataact ggatccctga cacatgacat cttcgaagat 180
aactcaagt gacacaaaact tcacgctctt cagacgacga gaaccgacac ttctaataaa 240
cacccttagg ctccccctgc tcataccgac tgatatacct atacaccata ctcacatga 300
tcgctggaa cagcac 316

<210> 28111

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-H3

<400> 28111

atcgctctc agaaccgaga tectcaaaac ctttctcccc cctcccgat cgagtgttg 60
agctccgacc aaatctcgca ggggctgcaa ttccgagccc gaagagcggg tcaggcgagg 120
acgacgcctt cgattctgat ctggggtcgg ctcgacctat agagaaccgg agatgcatca 180
gggcgactgc acggaggctc aggtgacgtg ggaggaccag cagaacatca accgcttcgg 240
tcgcctcaac aaccgccttc acgagctcca ggacgagatc aagctcgca aggagacgaa 300

tgagaacctt gatgatgctg ggaatgaact catcttgctg gatgaagacg ttgtacgctt 360
ccaaattggg gaagt 375

<210> 28112
<211> 440
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-026-Q1-K1-H6

<400> 28112

cggacgcgtg ggcggacgcg tgggcggaac cgtgggacac cattccttct tcgctgggtc 60
ggcgccgcta tggttaagta ctgcgaggag cggggcaacc ctaccaaata ggccaaggcc 120
atgggaaggg acctgagggg ccaacttcaag aacacaaggg agacagcttt tgcgcttcgc 180
aagctgcctt tgaccaaggc taagcgatac cttgaggatg ttattgctca caagcaggca 240
attccttccc ggagatactg tggaggtggt ggctgcaccg cacaagcaaa gtctcgccac 300
tccaatgggc agggctcgctg gcctgttaag tcagccaggt tcatattgga tttgctgaag 360
aatgctgaga gtaacgctga tgtgaaaggc ttggacgtgg acaacctcta tgtttcacac 420
atncaggtga accaagccca 440

<210> 28113
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-H7

<400> 28113

cccacgcgtc cgaggaagtc gaaaggatga acccaggtgc cctgaactca aggtctgaag 60
atggtctatc tgactcgctg ggaagagggg ttgcttccaa agatccccga ggaggccggt 120
ctacttcggg tcttgattcc cagaaccggt tatttggtca atccgtgaag ccctttgaag 180
tgaatccgac caaacgcgtg aatcttgccg cgtaaagagt gaatgggaca atgtgtgtat 240
gcctccgggt aagccctgtg gtaccagat tgtgtcctcg cgccagttta ccctttaagc 300
tcagattttg ggtgtgccct gtgctctggt ctgtgctcta gatattgtgt cacagcacgc 360

<210> 28114
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-H8

<400> 28114

ctccccctccc ggccttccct tcctccccgc cctccgaagt ccgaaggcca gaagcttccg 60
ggggccagcc caagccatga acgccgccag caccgccgcc ggggcccccg cgcttgcgc 120
gaccgtgcag gtgccgcgcg ggcaggtgga tctgatcgac ttcacgcact ggaccggcgt 180
cgagtgcctc aaccaggact cgtcccacag catcgtcaac gcgctcaagc agagtttgag 240
agacgacgag gggctgtacc tcgccagcga ttcggacgag cagctgctga tctacatccc 300
cttcatgcag gtagtcaaac tgcattccgc gctattcaaa ggtcccgagg aagatggccc 360
caaaacagta aactcttctt caatcaagag catatgggtt tcagcaatgt caatgac 417

<210> 28115
<211> 467
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-H9

<400> 28115

cgcagcagtg cccgccgcag gggaccggcg ccgccgaccc gccctgccc atggaccccg 60
tggcgcgcac cgccttcgac accaactact acgccaacct ggtcgccagg cgcggcctgc 120
tcgcctccga ccaggcgcgtg ctgcgccgacc cggccaccgc cgcgcaggtg ctgcctaca 180
ccaacagccc cgccaccttc cagaccgact tcgtcgccgc catcatcaag atgggtgcc 240
tacaggtgct cacaggcaca gccggcaccg tccggaccaa ctgcaggggtg gctagctagc 300
tcatccatga ttacgtcta cctgtagact catgtgctta tataaaatca tacgacgaaa 360
ctgtacgtac ggcgtagagt ggtgtggcga ggtccaatga ttcagattgt acgtacgtgt 420
ccatcgatcc aactgtagtt gtgtacgcag tacagtacgt gctagct 467

<210> 28116

<211> 355
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-026-Q1-K1-G2

 <400> 28116

 aataaaaaat aacataaaaa taatcaataa aataaaacaa aaaatacaaa ataaattaaa 60
 aagggtacag agaatctaataa aaagaagata aaaatagaaa aacaaaatac aaaaagacaa 120
 aaaaaactaa aatataaaaaa tatggggcgc ccattttaag ttcttccatg tttacgtgct 180
 tggacttact cagtatatca tcttttatgg tgaacctaat tttaattcta atgccctctc 240
 tttaaaaact tgatacctgg taaacccctt ggttcacccc attttttccc ctatcagtaa 300
 ataccttttt tataagctga cgttttctct aaaaggccct ctcttttggc ccttc 355

<210> 28117
 <211> 467
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-026-Q1-K1-E9

 <400> 28117

gctgttctcc tcaccgctcg tgctctctct ctctctctcg gcgccgactc ggctaccgcc 60
 gccggcttac ggaagcttcc caggtcttcg tcaggctttt ctccggcaac gagcacctg 120
 cacagatcgt gaacctccac acctcaacga tagatggcgg gggtcagaag ccttgcaccc 180
 aagaccagga acctggtggt ggccggggga ctgtctgcct tcgtgctcgg ggtctactac 240
 tacaccatga gagcgggtggg aggcacggac gagctacagg tggcgatcga caagtttgag 300
 gagacgaaga agcaggatgc tgctagaaac tccagctcca gcgcaggagg atcataattc 360
 ataagcacgc ggacacgcnc tggatctgct gcaagctgag tggctgacat ggtacgacga 420
 cagtcacgtc gctcagtagg ccatgaccat gcgttctgct tgtactg 467

<210> 28118
 <211> 361
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-026-Q1-K1-F1

<400> 28118

ctgatgcgca caccgtgttt ttcctagcag gcttgtactt tggagctatt tatctgtgcc 60

cggacaggga tgatgcttcc attatacagt agagtagtgt tggtaatatg tacacattgt 120

tgagaacgtt gtacttgagg cctgttggtta ttatacggca atagtagatt gtttgcgga 180

agcctcggtt tttgtgcgtc taattctctg acttgagaa ttgcggtggc aaatacccat 240

tgccctccaa gttgtgcgtt agcgtattta tccgtagttg acagcaatga acatattact 300

actgctttct gtattttcta ttaacgcag cacaagtgtt attgggtttc catattttca 360

a 361

<210> 28119

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-F10

<400> 28119

eggaggcccg gccgcagttc cgccatcagc catcgaattc gatggcggcc aacttcggga 60

acaagatccg caacgccaaag ctggttcttc ttggagatgt aggcgctggc aaatctagct 120

tggttcttcg gtttgtcaag ggacagtttg ttgaattcca ggaatcaaca atcggagcag 180

ctttcttttc ccagacctta gcggtaaatg atgagactgt taagtttgaa atctgggata 240

ctgctgggca agagaggtat catagcttgg ccccatgta ttataggggt gcagccgccg 300

ccattggtgt ctatgacatc aaaaatccg ctttcttcac ccgtgccaaag aaatgggttc 360

aagaacttca agctcaaggg gaatccgata caatagtggc tcttgcttgt aacaagggtg 420

atatgctaga tgcgaggcac gttgc 445

<210> 28120

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-F11

<400> 28120

cagagcagcc gcacccacaa cctgcctctc tcgtccctg gcggcgctccg cggcaggatg 60

gcggaatcta cggcgaggac ggtgaaggat gtcaaccgc acgagttcgt caaggcctac 120
tccgcccacc tcaagcgctc cggcaagatg gagctccctg agtgggttga cattgtgaag 180
actgcgaggt tcaaggagct tcctccttat gatcctgact ggtactacat cagggctgca 240
tccattgcaa ggaagatcta cctaaggcaa ggcatcgggtg tgggtggctt tcagaagatc 300
tacggtggcc gccagaggaa tggctccgc ccaccacact tctgcaagag cagtgggtgct 360
gttgcacgca acatcctgca gcagctgcag attatgggca tcatcgatgt cgatcccaag 420
ggtggacgcc tcatcaccaa ccaggaagg cgtgatctgg a 461

<210> 28121

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-F12

<400> 28121

cccacgcgtc cgcccacgcg tccgatcctc gatcgggaga cgagagggtc ccgcggttc 60
gggttcgtca ccttctccac ggaggaggcg atgcggaacg ccatcgaggg catgaacggc 120
aaggagctgg acggccgcaa catcacgcgtc aacgaggccc agtcccgcgg cggccgtgga 180
agcggcagcg gcggctacgg tgggtggccgt ggaagcggcg gctactgcgg tggcgggcgc 240
cgtgatggcg gcagcagcta cggcgggtggc ggcgggcggt acggtggctg cagtggctac 300
ggtggtggtg gtggcggcta cggcgggtggc aaccgtggcg gcggctacgg caacttcgac 360
gggaactgga ggaactgagc ggt 383

<210> 28122

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-F2

<400> 28122

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gcgccacacc ttttggacgg gacggggctt gcttgtgtgt ttaattttgt acctaggctg 120
ggaacatgtg tttggaggga tgggtgctgct tataaacatt ctttatacct tgtattgtac 180

acgtacatct acaagatgcg agtcaacccg ttgggttgaa gaactctccg agtggtttct 240
 tacatttgtt aagttttttt tttttctttc agtttctgca aaaagttctg agctctgtac 300
 atacattttg gctaagaagt caacctagtt atggggatat tgtgagcaat tataagtcgg 360
 ttcacgcaga aaa 373

<210> 28123
 <211> 460
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-F3

<400> 28123

gccgacaact ctctaccgtc cgagacccca agcaccagcg cggcggcggc ggccggcggc 60
 acgcatggct gtcgggaaga acaagaggat ctccaaggga aagaagggtg gcaagaaaaa 120
 gaccgtcgac cttttctcta agaaggattg gtatgacatc aaggcacctg cggtgttcag 180
 tgtgcgcaac atcgggaaga ctctcgtatc caggacacag ggtaccagga ttgcttctga 240
 gggctctgaag cacagagtct ttgaagtttg cctagctgat cttcagggcg acgaggatca 300
 agcttacagg aaaatcaggc tccgtgctga agatgtgcag ggcaggaatg tgctcacaaa 360
 cttttggggg atgaatttta ccaactgataa aatgaggtcc ctagtgaaga aatggcagac 420
 attaatcgaa gcccatgttg atgtcaagac aaccgacaac 460

<210> 28124
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-F5

<400> 28124

tcgggaaacc ctagtccgtc atatctcacg atccactcta gcaccaatcc tagggaaggt 60
 gaggagcgat ggctctcggc gtggtgtcgg cgaagggcgg ctccgtcggc ggcattgaaga 120
 aggggtcggg ttctttaagg atggtcttct tatagccagt taaggacttg ttcacggaag 180
 tcgtctcttt ttgtacgttt aagtatgtga ctttcagaat tgccgcgtca aataccatt 240
 gccctgcaag ttgtgcatta tcgtatttat gcgtgattga ctgcaatgaa catattacta 300

ctgctttatg tatttgctat tgacgcatgc gcatagttta ttgggtttcc atattttc 358

<210> 28125
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-F6

<400> 28125

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gctatcagcg gactaggtga ctgagctttc gagaagaacc ttgccagtt ctttcctctt 120
ctcgctgggc tcataagctg cgagcatggt tctagtgaag tacaggtggc cctgagtgat 180
atgttcagca cttgggttgg cccactcggt ctccagtcct gctgatgctg aacatcatgt 240
tatacatagt agtatacatc ccatttgtgt cctcctttcc tccattatgt tatgctaata 300
ttttagtcgc tgggagttca tattgttgtg ctgaactgat catgcagatc aaattttcgt 360
tgacgttatt ttcttggtcg tatcgggagg agtgtatgtc actatagaga actgaattat 420
gtacggtagt ttagctaaaa ttgtgcccac tctgt 455

<210> 28126
<211> 141
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-F7

<400> 28126

tcttccttcc actcttctct cccactcttc ctaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaagaaaa aataaaaaaaaa aaaaaaaaaa aaaaataaaa aaaaaataaa aaaaactaaa 120
aaaaacacta atatctcaaa a 141

<210> 28127
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-F8

<400> 28127

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 aaggggactg gagagagcat caatgagaag gaccgctgcc caggggtgcaa gggtgagaag 120
 gtcgttcaag agaagaaggt tcttgagggt catgttgaga aggggatgca acacaaccag 180
 aagatcacct tccctgggtga agctgatgaa ggcgctgata ctgtcactgg agacattgta 240
 ttcgtccttc agcagaagga tcaactccaaa ttcaaaagaa aggggtgaaga tctcttctat 300
 gagcacacct tgtctctgac cgaagcacta tgtggggtcc aatttgttct tacacatctg 360
 gacaacaggc agcttctcat caaatcagac cctgggtg 397

<210> 28128
 <211> 74
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-F9

<400> 28128

aaaaaaaaaa aaaaataaaa aaaaaaaaaa aattaactaa aaaaaaaaaa aaaataaaaa 60
 aagagtagac atac 74

<210> 28129
 <211> 313
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-G1

<400> 28129

acgcgggagt ccttgtctat cttgagcatc gaatccttgc tgtagtgttt atcagtctgc 60
 gactcagcat ggcgtgctgt tgatatctga caatagcaat gtgtggatgt gttgtgttgt 120
 gttgtgagac tcagatgtaa gctttgtgga gttcatttcc acgtgtgtgg gaaaagtgtt 180
 tggtttgaat cgaacaataa tagtgcatat aataatataa cttgcagaat atgaaaaggg 240
 aaatacccat tgacctccaa gatgagcgtt agcgtcttta ttcgtatgtg acagcaatga 300
 acatatttgt act 313

<210> 28130
 <211> 434

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-026-Q1-K1-G11

 <400> 28130

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 atgcgcacca ttggattcaa tgttgaaact gttgagtaca agaacattag cttcaccggt 120
 tgggatgttg gtggccagga caagatcagg cccctgtgga ggactactt tcagaacacg 180
 cagggactta tttttgttgt agacagcaat gataggaac gtgttggtga ggctagagat 240
 gagctccaca ggatgctgaa tgaggatgag ctgcgtgatg ccgtgctgct tgtatttgca 300
 aacaaacaag atcttcccaa tgctatgaat gctgctgaaa ttactgacaa gcttgggtctg 360
 cattctcttc gccagcggca ctggtacatn cagagcactt gtgctacatc tggtgaaagg 420
 ttgtatgaag ggct 434

<210> 28131
 <211> 371
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-026-Q1-K1-G12

 <400> 28131

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 ccggggctac cagatcctaa tggggcttct cctgttcaeg cccattgctt tccttgctg 120
 gttcccgttc gtgtccgagt tccaaaccag gatgctgttc aaccaggcct tcagcagaag 180
 tctgcagatc ttccgtatcc tgggaggaca caagaaagac cgaaggacgc ggatcaagga 240
 gtagtagggc tgctgattga aggtccgtct atcgggagtt atgtcgtcct ggagcggctct 300
 atcaggttca gagaatatta nggtccgtat gtatgtatgt gtgtgtcgca cctagcacca 360
 gtagtatgta t 371

<210> 28132
 <211> 459
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-026-Q1-K1-D11

<400> 28132

aattgttaac aatctaataa aagctccaga attggctacc aagatgccag aatttaacca 60
aggaatgacc caaggaagtg ttaatggaaa aattgtgaac caaggcagtg aatcaacttt 120
ggaactctta gggacatgga ggaggaaatc gaagaggagg ttgacaaggt tcttgcttca 180
gtagcagggg agactgcctt ccagctacca gatgctgcca gaacacagaa gatacatgag 240
gcttcaacaa gcagggttcc agaagagcga caagctgttg cagaggggtgc tgatgacgac 300
gaggaagacc tagaagagat cagggcacgg cttgctaaag tgaggtcgta aatcatatac 360
atatctgagc tttctaacct ggtgagccca tggctcaaca aatatggtgc caaaacccgt 420
gtattgtgaa ctgagtcgat gacaatgcan natttttta 459

<210> 28133
<211> 317
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-D2

<400> 28133

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ggactctgca acggtactac agtaatgcct atatggatgc ttacaaacaa gcagcgataa 120
acttatttct aggatacttc caaccgcagg tgggaaaacc tgcactttgg gagccagaat 180
ctggtgacga gcatgtactt gatgacgaga caaggtaagc tagcaatata tacctatgct 240
tgaacttaca gggttaagta tgctcctaataaaaagaacaa tatacgcttt ttaatcgaca 300
acatttgaat aatatgt 317

<210> 28134
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-D3

<400> 28134

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gtgcgcacgc agctgcggcg gccagtcccc agtggatcgg cgtgcgcgcg tggcggggta 120
gtcgtcgcg cgctacatg gcagtatgac acgggatttt gctgttcagt aactacggt 180
tactggcgtc tctctctgtg tgtgtgtgtc gtacgtagcc cggtagctat ctagcagtga 240
ctgtcgcgtg gacttgtacg gtgcgggtctg cgagtgcgt gggctaaata aagtgtgcgt 300
cgggtggtaa tgggtgtggg gcccggtgtc agtggcgag tgcccatgc ctgccgcgga 360
tgcagcttgt tgtgtcttgt gt 382

<210> 28135
<211> 199
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-D4

<400> 28135

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ggcaattgag aaggattgca tgagccatcc ctataattat gtcattcatg ctgtgatcgt 120
attagatgat gaaacaaaat tcgaaccttc cgctgggtctg ttgttgcaac agttcatatg 180
caatagggtt ttaatgggt 199

<210> 28136
<211> 451
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-026-Q1-K1-D6

<400> 28136

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aaaggaagaa cgcgtcgcgg agccatgggg cttggccttg gcgtgcgggc ggcgcccttc 120
acgtacgcgg cgcacgcact ggccgtcgcg gcggcgccca tggttctcgt ctggtccatc 180
cagttccgcy gcgggctcgc catcgagtcc accaacaaga acctcatctt caacgttcac 240
cctgttctta tgcttatcgg ttatgttatt atcggcggtg aagctataat ggtgtacagg 300
gtacttccaa catcgaatca tgacacaact aagctgatcc atctaattct ccacgggatt 360

gcactngtcc ttggtgcggt tggaatatac tttgctttca aaaatcacaa tgagagtggg 420
attgccaatc tttacagcct gcactcttgg a 451

<210> 28137
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-D7

<400> 28137

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gggaggctct tcaagcttat gttctataac atggaggaat ccagtttcag caaaccaact 120
gtcaaaagac ttttgaggga cgagctacga aagctaaaac agctgaagct tccaaatgat 180
gaggttgaga gaatattagc tgacctggga catgggtgcct gcctggacaa aagttcaacc 240
cataacagca aagcgaagaa gggagaccaa aatcacatca gaggtatcac caccacggct 300
gctccatctg gatctttgga tcccactgct tccaactgca tgaaagaagc agaagacaat 360
gagcttgaat ttgccttggc agtattotta ggacggatc atagaaattg caccaataat 420
ggggagttat gtacggagat gaaagcccta at 452

<210> 28138
<211> 276
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-D9

<400> 28138

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ctggtggaga accaaaaaaa acttaataac taaaaccctc ttaaaataaa aatccaacct 120
ttcaaaagcc aataatcggg attatcattc acacattcaa attcctaaat tacctaactt 180
atccgaccat gtcaccttc ttctaccaca aatcaatgat ccttcccaa ttttataaat 240
ttactgacat gctaattatc acactttccc aaatta 276

<210> 28139
<211> 442

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-026-Q1-K1-E1
 <400> 28139
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 aagtcgcaat gcggcttgtg agacctggga agaaaaataa ggatgttact gaagcaattc 120
 agaaagttgc tgctgcttat gattgcaaaa ttgtggaagg tgttcttagc catcaactga 180
 aacaatttgt gattgatggg aacaaagttg tgctcagtgt ctccaatgct gatacaaagg 240
 ttgatgatgc tgaatttgaa gaaaatgaag tatatgcaat cgatattgtc accagcactg 300
 gggaggggaa gccaagtta ttggatgaga aacagaccac catctacaaa aagggccgta 360
 gacaagaaat atcacttgaa gatgaaagcg tcaaggttta ttttcagtga gatcagccag 420
 aagttcccat catgccttta ct 442

<210> 28140
 <211> 464
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-026-Q1-K1-E10
 <400> 28140
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 tgaggagcat gctgagaagg caaagacctt gcctgagaac acgagcaatg agaacaagct 120
 gatcctatac gggctctaca agcaagccac ggttggagat gtgaataccg atcgtccggg 180
 catattctac caaaaggaca gggccaagtg ggatgcctgg aaggctgttg aaggcaaadc 240
 gaaggatgag gcgatgaatg actacatcac caaggtgaag cagctccagg aggaggctgc 300
 cgctctctaa aagtctctta atagtgttgc caaacagcta tttgtcagat gagctttgtg 360
 ccatttcctc attagaagta tatcattcga tccattgggg atctgtgaac catgtacctg 420
 tttatgtaac tggttaccag tgttatccat ctatctatct atct 464

<210> 28141
 <211> 193
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-E11

<400> 28141

cggacgcgtg gggttcagga aaatgagtca ccttatggag tgacgtttag ttgccttgta 60
aatgcctcaa tctgagccct tttttgggtt tttttctctg caaatgtatg tttctaaggt 120
agtgtgttgt taatgttaat gattctacac ctttctgtga cagttttgcg aataagagga 180
gcacctcatc ctt 193

<210> 28142

<211> 261

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-E12

<400> 28142

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agtggcgat tcacaaagga ttttgctgta tactaacaat gccatgcat gtttactccg 120
taagtgcatt cctaatactg aagattatcc aggatactac gagcataaca ggattcatag 180
ggcaaaccac atgccgatcc tacaacgggc ttaaaatccc cgacattatc aacgatcaac 240
ctttacccca acctgctctg a 261

<210> 28143

<211> 90

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-E2

<400> 28143

cgacgcacat tgtatcgccc ccttttagcgc ggctgacgtg gtgattacac gcaacacata 60
cgttgctctt gacatgggcc taacacacga 90

<210> 28144

<211> 281

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-E3

<400> 28144

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ggatctgagc agcaccaacc tagtagtgac tattttgata gtggagtaga tgaccttaaa 120

aaccacaac attacattgt gtgggatatg aatctgaata ggcacatcta tcctgagttt 180

gtagtctccg ttaaattgcc tctaaatct gatgattact tcgtatggca agacgactgt 240

cagaattcat gtgatctgtc actgggtttg atatccagtt c 281

<210> 28145

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-E4

<400> 28145

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ggcggcctcg cctggggccac ggacgaccac tccctccaca acgccttcag cacctacggc 180

gaggtcctcg agtccaagat tctcctcgat cgggagacgc agaggtcccg cggcttcggc 240

ttcgtcacct tctccacgga ggaggcgatg cggaacgcc a tcgagggcat gaacggcaag 300

gagctggacg gccgcaacat caccgtcaac gagggccagt cccgcggcgg ccgtggaggc 360

ggcggcggcg gctacagtgg tggccgtgga ggcgggcggt acggcggtgg cgggcgcctg 420

<210> 28146

<211> 270

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-E5

<400> 28146

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gcatctacta ctacagatcc acatgacttc tttaaaccct tcatcgtaac gagatcagat 120

atattattat atgtcaagag agccccaaaa tggttctatg tatgtctgaa atctacctac 180

ttgaactgat gaaaatatat tgtatgaata tttttgcacc atatgcttgt taaataaaga 240

ctaatatgac taaatcgatc aaaaatttat

270

<210> 28147
<211> 384
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-026-Q1-K1-D1

<400> 28147

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tgactacccg gacgccgacg caggtggcta gccacgcgca gaagtacttc atccgcctca 120
actccggcgg caaggacaag cgccgggtcca gcatccacga catcaccacc gtcaacctcc 180
ccgacgaaga ccgcggcaac ggcgccaccgt ccgcgggtcac caccactacc aaccctccg 240
tcgccctccc ggacatgaag ccttctattg cgccgctcca agacgcgctc ggcggtgcgc 300
accctacgg caacgtgaag ctggagccta agagctcgct ggtggccggc ctgggcttca 360
acgactccgt cctnctgatg cact 384

<210> 28148
<211> 120
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-E6

<400> 28148

ctctagtaga actgtagaag atgtagttat cagtatctct tttgtattat tggccacgt 60
ttacttctca atcgaatatt tatgcgaggg atgtttgtca acgccttagg cttcatcttg 120

<210> 28149
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-E7

<400> 28149

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gcgaagtcgt cgctgcctc gagctcggcg cagcgggcag ctgccgcact gctcgtggcc 120
gccgccgtgg cgggtgtccgt cctgggtggg ggcgcggcgg cgggtgtgca catgagcaac 180
gagcagttca tgctcgtgcca gcccgcggcg gccaaagaca cggacccgcc ggccgcggcg 240
tcgcaggcgt gctgcgacgc gctggcgggg ggcgacctca agtgccctgtg cggctacaag 300
aactcgccgt ggatggggtg ctacaacatc gaccccaagc gcgccatgga gcttccggcc 360
aagtgcggtc tcgccacgcc gtccgactgc tagcagtgtg ctagccaagc caagc 415

<210> 28150
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-B5

<400> 28150

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cagtgtctctt acgatgggtg tcgttggaa cccagaagagc atttcgatga tcaacaatca 120
cgaatatatg gggttcctca acttctgcga gtaactcaaa caccatcaga ctgtcgatcc 180
atccgggaga atccaggcca atgcctaatt gacctcatct cctcaaaaat ctagaagaat 240
aaagtcgccc agtatgtgca caagttagct cctcgccaac atgtgcgcat ttagaccgac 300
agagtcgctg tagtgaattc agctcgtgtt agctcctggc taacgagctg accatacggc 360
tttagttttg tgaagtgggc gcgatttcgt catgtcatgc atgtgttagc tcttggc 417

<210> 28151
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-B6

<400> 28151

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agaacgggta ccaccaccgc accgagatga acaagaaagt ttacaagatc ggcaaggctg 120
gacaagagac ccacgatgcc tccacagagt ttgacaggac cgagaaggac atcactccca 180
tggttggtct cccccactat ggtatcgtga aggggtgacta cctgatgatc aagggatgct 240

gtgtgggtcc aaagaagagg gtggtgaccc tccgccagtc cctcctgaag cagacttccc 300
 ggctggcgct ggaggagatc aagctcaagt tcatcgacac atcgtccaaa tttgggcatg 360
 gtcgcttcca gactaccgat gagaagcaga ggttcttttg taagctcaag ggcgtaggtg 420
 ctgcggtgca tcgacaagtc ccatttgtca aaat 454

<210> 28152
 <211> 450
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-B7

<400> 28152

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 caggccagag aaaaaagcat cgaatttccc cccccgttaa ttggcctgag ccctcagccg 120
 tctaccagca gcagctagag gcagacaagc taggttttac tgcttcattg agcacaaaga 180
 tccgctgacc tcttggtaaa aatccaacct tttttgtatt gttttcttct gggaaaacct 240
 ccttgtggtg cataaactgc gtagtacact ctacaatttc tggagaggaa gctgagaact 300
 actatccata tctggcacga cccttgtcaa gaaccatggc tgttcacttg ccatgaagct 360
 gcttgaactg gaggcaccta aatgctgtgg attgttecta tgcagatgat cggatcagtg 420
 gtttcaggct ccgggggggtt cgatcagatg 450

<210> 28153
 <211> 289
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-B8

<400> 28153

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 ctgcggcatg agcggtttttt accctggctg cgataaccac ttctgttcat gtcaagccga 120
 aaggcgtctt ccccatctgc tccagtctct gccgtctat gatgggctgc tcgccgtcat 180
 ctcatgcttt catgatgatg atgcctccga acatgatggg cgtctctatc tgtttaccba 240
 gcatgggcca gatggtccgt cccccccaca tggttggctg ctgcattcc 289

28154-28155-28156

<210> 28154
<211> 461
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-026-Q1-K1-B9

<400> 28154

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gtcgccatgt ctggcatcat ccacaagatc gaggagaagc tccacatggg gggcgaccac 120
aagaaggagg atgagcacca caagaaggcc gaggagcacc acaagaagga ggagggggag 180
caccacaaga aggacggcgg ggagcataag gaaggcatcg tggagaagat caaggacaag 240
atcaccggcg agcacggcga caagtccggc gaccacaagg aaaagaagga caagaaaaag 300
aagaaggaga agaagaagca cggcgagggc cagcaccacg acggcggcca cagtagcagc 360
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caggtgcaac acangtatgc tngctggatg gaggattcat a 461

<210> 28155
<211> 291
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-C1

<400> 28155

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tgattgacaa agcacccccac atgggtctgta tcatcaggaa acatatacat cgtataaaaa 120
acatcagaaa aaggaaagat ttgcagttca aaaaaaaaaa cattaaaaaa aaaagaataa 180
ccaaaaagaa aacaaaaaaa aaagcctagc catcaagaca taaaaaaata acaaacccta 240
tgtctaaaat tccagacatg taatcgctta ttgcacgcca tacaagacac g 291

<210> 28156
<211> 470
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-026-Q1-K1-C10

<400> 28156

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aggagcagga gtagaagccg ctcataccac agttcttcac ctgcccggcg cagtgcctagc 120
cctcccaaga gcccacccgc acagaggagc cccactcctg aaaagcatgc caatggaaaa 180
gattcacctc tgtcacgcag tgtatctcca tcaccgaagc gtgcaagctc ccgcagccca 240
ggcagcgata gcaaggaata aagcttggtg atctggtgat gcttaaagag cagtcttccc 300
atgggattgc agaacgttga gaaggctggt tgaatatgat ggcagtacca atctgcaatc 360
aaccgctatc caaggttgct agttctttta atgacttcta gaattgtggt ttccagttgt 420
caaaatatgc tgntgggttg tatttcgacc tctattgtct ttttataccc 470

<210> 28157

<211> 459

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-026-Q1-K1-C11

<400> 28157

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gccgcgcctt ccgccagtcc ggcacaaacg tctcgcctt cgccgccgcg ctcgagattg 120
ttgccgttgg atacgccatc atgaccacga gatcgccgga catcagctgg cagatgaggg 180
cagtcagggt gctacccatg ttcttggttc ctgctctagc tgctctcatc tactcgacca 240
ttacaaacct cacgaaaatg cttgacaaca gagaccaaca aactcttgaa aagctacgaa 300
ctgaaaggca agccaagatt gacgaattga aggagagaac aaattactac actactcagc 360
aacttataca gagatatgat cttgaccag ctgcaaaggc ggcagcggca acagttttgg 420
catcaaagtt ggggtgcggat tctggactga gagtctttt 459

<210> 28158

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-C12

<400> 28158

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ttacceggaa acatgagctt agcgtggatt ttaccatttt gaggtgtag aaaagcgtgc 120

tgcctatttt agactagata tacagactaa aacatatgga gcccacatt tcgggtattg 180

tcaagttgtg cgtttcactt tcaaaatagt gtaagggcct tgtgtttttt ttcttcttct 240

gaatttggtg taaaatagtc tagcatccct tgcaaagagg gggtaatgtt gttgtcacat 300

gatgggtgtg accaaagtgt agtaaagcat cccttgcaaa gaggggggtg tagtgtcctg 360

tatgtttttt taagcaaagt tgacaaacta tataagaaat gaatatttca tgtgagttat 420

gt 422

<210> 28159

<211> 213

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-C2

<400> 28159

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gaatggaaaa gtatactcgg tggtagtggtg attcagagac accgtaagat cgtgcagcaa 120

aacgcttatc agtacatgag ggtatcatgg gcaaagattt tccagacact ctttattcaa 180

tgtttatagt ggcattattt cttcattacc att 213

<210> 28160

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-C3

<400> 28160

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tgttcgcggc agccactctt ggggttcaac tttggccttg tgtatttatg ggatggattt 180

cagatggtag agacgtatgc ttgtgctggt caaaaacca gtgtacaatg tgatactagg 240

tgctacgtgc ctttcttttt ttaatctgtg ctgcactctt gcctgtatgg gctgttttgt 300
 tgttgggttc cggtaaataa tccagaacag tggcaciaac gattagttgt tgcattgctac 360
 tgccttttct gaataaatct gtcattgtaa tcg 393

<210> 28161
 <211> 444
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-026-Q1-K1-C5
 <400> 28161

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 ttcaaagcag cagcagaaac agttcctgga tgaagccatg atcaagcagc cgacaccgga 180
 ggaggaccgt gagggcgcat ggccctcagt gctgacgac atcggccttg gattcctaac 240
 cttcaactca ttcattggctg tgtacaggtc aaatggagat gttggatcta tctcctttgt 300
 ggtcttctct tacctgggtcc tcgttctgct gttctactgc ctgcgccgat tcgagacaac 360
 tccaccagag tcgcctagcc gggagcacat aataaatggc cgtgtgggta ctcaccacga 420
 tgctcactgc tgcgttctca taca 444

<210> 28162
 <211> 304
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-026-Q1-K1-C7
 <400> 28162

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 gaaggaaaac atacacacta gctgaactaa aatttcaaaa atctattaat ttcaattggt 120
 cttcctaagt tcacactatt gcccttcaac ttttcaactt gcatattact agaatccttc 180
 ccatataata cctacgtatc cttccgctgt tcaccttttc agcgtacaac gtgatactat 240
 gtgctacctt ctttcttttc cttaatctgt gctgctctct tacatgcttt gactgttcta 300
 tccc 304

<210> 28163
 <211> 277
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-026-Q1-K1-C8

 <400> 28163

 cccactcgtt cgccactcg ttcgaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
 aaggaaaaaa aaaaaaaaaa aaaaaaatat aaaaaaaaaa aaataaaaaa aaataaaata 120
 atatatagag actccttaat tcatccaaat ttccatacct tttacatcgt aagccactgg 180
 tataaactg gggttcccaa ttttaatcag tctggccgca tattcaaaat tataccatct 240
 ggtataactc tcaaagtttc ccaattcata tcgcttt 277

<210> 28164
 <211> 342
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-026-Q1-K1-C9

 <400> 28164

 cggacgcgtg ggaaaaaaaaa aaaaaaaaaa ataaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
 aagaaagaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaataaaa aaaaaaaagg gcgccccttt taaaaaatca 180
 aatttttctt accgttactt taaattttta aattttttta aaggggcccc aaaatttaat 240
 ttattgcccc ttttttaaaa acttttaatt tggaaaaacc ttggttttcc caaatttaat 300
 cccttttaaaa aaaaaccctt ttttccaaat tggcttatta cc 342

<210> 28165
 <211> 456
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-026-Q1-K1-B4

 <400> 28165

 cccacgcgtc cgagaacggg ggcggcaaaa gcggggccaa gaacggcaag ggcggcggcg 60

gcggcgccg cgctcgttgcc ccggggcgccg ggaaccaggc tgggcagggc aagccgaaaag 120
 gcggccttccc cggcgccgccc ggtctcggcg ggccgatgat gggcgccgccc cgcgcgcccgc 180
 atgcggggcat gatgatgagg ccgccgaaca tgatggcgcg cgcgggcggg tttcccgggca 240
 tggggccagat gggcgccccc cccacatgg gtggcgccg catgcccat gcaggcgggg 300
 gcgcccgcga cggcatgccg gctgggtggca gcatcagcat ggccgctggc ggaatgcctg 360
 gggccggggtt ctttccgcgc ggcgttggcg gcggcatgcc ggccggcgcg gagatgctgg 420
 gcatgtcgca gctgcctccg cagcaacagc agcaca 456

<210> 28166
 <211> 336
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-026-Q1-K1-A11
 <400> 28166

aacagacata cacacacact tacagggcga tataatcccc agcctggaga tccccgacaa 60
 ggtacgccat catgcatctg gtcacgttgc gaccatggag ctcaacaccg accaaatcta 120
 ccgagactac atgctcgatt ccgaagataa ctggaattgc cagctcgaaa acattacctt 180
 caccgcaaaa tatggaaaacg ttccacagat ccatgcacgt cttcatcaaa ctatgcctag 240
 tcatatttat gattatacct gatatgctca agaacgctac catgttcaag ctcttggaag 300
 ctacaattaa tcgcaaatga tcacctatta caattt 336

<210> 28167
 <211> 436
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-026-Q1-K1-A12
 <400> 28167

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 tgggcctaag ccgttgctaa ttgtcaacat tgggggcccc accaggaatt gtaaatatgg 120
 tgtagatctt gccaggcagc tcataacttc tctgtataat gtgctagata gctgtggggag 180
 tgtcagaatc tcattctctc cgagaacacc atggaagggt gctgatacta tatttaaaga 240

atttgctgga catcccaagg tctatatattg gaatgggtgaa gaacctaacc ctcacatggg 300
 acatcttgca tgggctgatg cttttgtcat aacagcagac tcgataagta tgttaagtga 360
 ggcaggtagc acagggaaac ctgggttatgt tattgggacc gaacacttgt aatggaagtt 420
 ttcggctttt cacaag 436

<210> 28168
 <211> 308
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-A2

<400> 28168

tcccactctt cctcccactc ttccttcac tctttcgaaa aaaaaaaaaa aaaaaaaaaa 60
 aaagaaaatg agaaaataaa aaaaaaaaaa aaaaaaata aataaaaaaa aaaacaataa 120
 aaaaaaaaaa aaaaaaaaaa tataataaaa aaaaataaaa aaccaaaaaa aaaaaaaaaa 180
 aggaccccct ttttaaaaaa acaaattttt attacccttg aatccaattt taaaattttt 240
 tttttgggaa ccaaaattta aattaatttg cccgtttttt aaaaaatcca acttttaaaaa 300
 acctttat 308

<210> 28169
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-A3

<400> 28169

cgcaactggt cgacgacgac ttcctcgtct ctctcctccg gcctcgagtc gcctccgatc 60
 cggccgagaa aacaaaacaa accgaaagaa gaaaggcgac gaggaagaga aggctctccg 120
 cgagatctgg gggagctccc attctcaaga tgcacgactt ctgcttcacc atcccctacg 180
 ggttcgccgt gctggccggc ggcgtgctgg gctacctccg ccgcggcagc accgtctccc 240
 tggcgggtggg cgccggcgcc ggcgcgctgc tctcctcgc gggcttcgtc agcctgaagg 300
 ccttcgagaa gagacgcaac tcctacgtcg ccctcgcgct cgagacgctt tgtgcattag 360
 ccttaacttt cgttatgggg caaagattcc tcgagacttc gaagattatg ccaactgggtg 420

tcgttgc

427

<210> 28170
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-A4

<400> 28170

ggttggcttc tctccctcc ggtcgggttc gggttcgaga ggttctccgg ggttcgggtc 60
ggggtgagcg gatcgagatg ggcgcgtcgg atgttgagta ccgtgttcgt cggcggcctc 120
gcctgggcca cggacgacca ctccctccac aacgccttca gcacctacgg cgaggtcctc 180
gagccaaga ttatcctcga tcgggagacg cagaggtccc gcggcttcgg ctctcgtcacc 240
ttctccacgg aggaggcgat gcggaacgcc atcgagggca tgaacggcaa ggagctggac 300
ggccgcaaca tcaccgtcaa cgaggcccag tcccgcggcg gccgtggagg cggcggcggc 360
ggctacggtg gtggccgtgg aagcggcggc tacggcgggtg gcgggcgcgc tgat 414

<210> 28171
<211> 102
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-A5

<400> 28171

ggcttgtgtt actgccgcca ctgttgtgac cggcgtgtt actagtgcac tgcagagatg 60
cgagtttctt gcgaacatgg ctttataggt ctagcttcat gc 102

<210> 28172
<211> 269
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-A6

<400> 28172

gcgatccac tcccgatcag cagctgatcg ctactcttg cagcgcggtg attctttagc 60
tgctctagct ctagccctag ctagtagcta gccactcggc cgtgtagtca tcagccttct 120

gatcgtcacc catggccact gccgaggtcc agaccccgac cgtcgtggcg accgaggaag 180
cgccgggtggt ggagaccccg gctccgccc cgtcgtgcc cgaggaggct gccccggccg 240
ccaaggccaa ggggaccaac ccagttgcc 269

<210> 28173
<211> 451
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-026-Q1-K1-A7
<400> 28173

ggggagctca agtcctggtc cttctaccgc tcgggcatcg ccgagttcgt cgccaggttc 60
cgcttctct acatcaccat cctcaccgtc atgggcgtct ccaagtcac ctccaagtgc 120
gccaccgtcg gtatccaggg catcgccctgg tccttcggag gaatgatctt cgcgctcgtc 180
tactgcaccg acggcatctc cggaggacac atcaaccag ctgtgacttt cgggctgttc 240
ttagccagga agctgtccct gactagggcc ctcttctaca ttatcatgca atgcctgggt 300
gccatctgtg gagctggagt ggtgaacggc ttccagcagg gactttacat gggcaacggt 360
ggtggcgcca atgttgctgc acctggctac accaagggtg atggccttgg cgctgagatt 420
gttggcacct tcatactagt ctacaccgtc t 451

<210> 28174
<211> 368
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-026-Q1-K1-A8
<400> 28174

cggacgcgtg gatcagacag ggacattgtg gcgctctccg gcggccatac tctggggaga 60
gcgcatcgag agaggacagg gtttgatggc ccatggacta gggatcctct gaaatttgac 120
aactcttatt tccttgagct tctgaaaggc gactctgaag ggctcttgaa actccctact 180
gacaaggttc ttgtggaaga tcctgaattc cgtcagcatg tccaactata tgccaaggat 240
gaagatgcat ttttcaggga ctacggggag tcacacaaga agctgtcaaa gctaggcttt 300
acccccctc gctcttgtct ctcatccaga tctgcgaata aacacaagtc gttgctgggtg 360

caagctgc

368

<210> 28175
<211> 466
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-026-Q1-K1-A9

<400> 28175

aagagagaga gagagagacg gaaaggggga gatgagccgg agcctgggga tcccggtgaa 60
ggtgctccat gaggcagcgg gtcacgtggt gacggtggag ctcaagaccg gcgaagtgtg 120
ccgggggtcc atggctcgagt gcgaggataa ctggaattgc cagctcgaga acattacctt 180
caccgccaag gatgggaagg ttctgcagct ggagcacgtc ttcacagag gaagcagagt 240
gagatttatg attatacctg atatgctcaa gaacgctccc atgttcaagc gcttggaagc 300
gagaattagg ggcaaaggat cagctattgg agttgggctg ggacgtgcag ttgcaatgcg 360
ttgctcggct gcttctggtc gtggtggtgg tcctgttggg cgaggcagcg cgccttctgt 420
gaggaggtag attttatggt gtcattggngc ttttcttggc tggctg 466

<210> 28176
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-B1

<400> 28176

gcatcggcgc cctttttttt ttgttttatt ttttttttta gctagcaagc agaattagaa 60
gaaactagtc atagttattc cagtaataat tctcaaagca agggaagaaa ataacagaaa 120
gggcgcatta agttgaccag tactaggggt tccatctgca gatcgaaagt taggaccaac 180
caaaagctag gaaacacatc aagctgcgcg tctcgccata cacaaattca tcacccaaaa 240
acaaaaacct tcaccgtctg atctggctgt ctgatccgat gtgtgggagc aagatcggtc 300
ggatcggatc ggatcacgcg gaagccgctg ccgttcggta gcggttgagc ttgccgaaga 360
tgtggaggtc ggtgacgaag ccgatgaagc ataggacat gacgagcacc a 411

<210> 28177
 <211> 466
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-026-Q1-K1-B10

 <400> 28177

ctcagcttca accctgcaaa agacataaca aacagttgat gaggttcgcg ccacagtcac 60
 tgaacttcag aatgccatta gagttttcag tctgttatct gttgcatcaa cgtaccactc 120
 ccatggtttt gatgagagga aaatagaaac tcatgttgag tactgtaaac atttacttga 180
 tgctgctaaa gttcatcgtg atgcaactga gcaagctgaa cagcagaata agcaaaaaat 240
 ggaagttgct cgtcagattg ctttggcaga agaagctcgc cgaagggcag aagagcagag 300
 aaaatttcag ttagaaagga ggaaggaaga ggatgaactc aagcaagtaa aacaacagga 360
 ggaacacttc cagcgtgtga aggaacaatg gaaaacattc agcaacaccc ctggcaagag 420
 aaaagatcga tctaagactg angatgaaga ggtgggaaat aaaaag 466

<210> 28178
 <211> 319
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-026-Q1-K1-B11

 <400> 28178

cccacgcgtc cgagtaatct tcggaggggg tgcaaagttg ttcgagcccc aatgttttag 60
 atgctctatg ctgtcgaagc tgtgctgtgc cattattgta gctgatttcg tctccattca 120
 cttctttttt cttgttagta ggctggtagt ggtcgaatta atttgctttg tgttgccgct 180
 agtccatgtg gactgggtatt gttcccctgg atttatttgg caagcgtgtc cgtgctcgct 240
 ctacggtttt attgagcttt taaagtcatc gcattcaaaa aaaaagacaa gaaacaaaaa 300
 aaataaaaaa taaaacaca 319

<210> 28179
 <211> 431
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-026-Q1-K1-B12

<400> 28179

cccacgcgtc cgcggacgcg tgggattcat ttcattctgt ccattctcct ctttgttcgc 60
cggcgtataa taagcttccc ctttctgcaa ctgatctgat ccgggctgcc gtgagctctg 120
ctcgtcttga tggagttcaa gagggatgta tggagcctgc tcctcgtgct gtcctcggg 180
cagctcgtcg ccttctccat ggccgcctca agcttcgcct cctccctcat tgctaattctt 240
ggagtcgatg cccactgac acagtctttc ttagcctacc tgttgctgac cttagtctat 300
gtaccaatcg tcctgcgtcg acggcagaag ctgcaaatac cttgggtactg gtacctagct 360
ctggccttct ttgatgtaca ggggaattat ctngttgtga aggcgtacca gtactcatac 420
attaccagtg t 431

<210> 28180
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-B2

<400> 28180

cccacgcgtc cgatccagag gagatgatcc aaactgggat atctaccatt gatgtgatga 60
actccattgc tcgtgggcaa aaaatcccc tattttctgc tgctggactc cctcacaatg 120
aaattgctgc tcagatctgt cgtcaggctg gccttgtgaa gacattggag aaaggaaagc 180
atgcagaggg tggatgaagat gacaactttg ctattgtgtt tgctgctatg ggagtgaaca 240
tggaacacgc tcaattcttc aaacgtgatt ttgaagagaa cggttccatg gaacgggtca 300
ccctttttct gaatctggct aatgatccca ccattgaacg tattatcacc cctcggattg 360
ctctaacaac agcagaatat ttggcatatg aatgtgggaa gcatgtactt gtcattctga 420
cagata 426

<210> 28181
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-B3

<400> 28181

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gtcaagacga gcagtgactg tgagtgagcg gcgtctggtc actctgggtg gaactgtgaa 120
gtgaggactt gttggaggag gacggagcgc gggccgcgga gggtcatggc atggtgatgg 180
acctgctgct cccctcact ttgcccctag tgctctaggc agccttagct agcctcgag 240
tcctgggagg aggagaagga caaggtctct gatcagctcc agcttgctctg gtcaaagctg 300
aggagcctgc ttgggctgcc tgtgagtcca agctcgacag gaccactgcc actgtgaagc 360
acagcggcag cggcgacgag acgaggacgc ggaagctgcc aagcggatag atctacgcaa 420
aatg 424

<210> 28182

<211> 467

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-026-Q1-K1-A10

<400> 28182

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atgagtcgtt cgtccagcta actgcactgc acgcaatggc caccacggcg accgaggcga 120
ccaagacgac tgcaccggcg cacgagcagc aggccaacgg caacggcaac ggcgagcaga 180
agacgcgcca ctccgaggtc ggccacaaga gcctgctcaa gagcgacgac ctctaccagt 240
acatcctgga cacgagcgtg taccgcggg agccggagag catgaaggag ctgcgcgaga 300
tcaccgtcaa gcacccatgg aacctgatga ccacctnecn cgacgagggc cagttcctca 360
acatgctcat caagctcatc ggcgccaaga agaccatgga gatcggcgtc tacaccggct 420
actcgctcct cgacaccgag ctgcgactcc cggaggacgg cacgatc 467

<210> 28183

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-G6

<400> 28183

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gactgggtgtt gtcactgggc agcgtttaac atggtgactt tgcagaggag tccgtcaaga 120

gcagaacgaa cgctaacatt gcgagtactg tgacgccgtg catcgaaagg gtgaggatca 180

atgctcaatg ggtcaacaac atgaaggacg aggctgactt tggcaatgtt ctcaagaacc 240

tggcttacta gcactgatca tagaggctcc acttagattt ctgggttatt gctaataacct 300

ttatgtaacc ttgttctttg gaattagtcg attaataatt ggcacttttg tatgtttatt 360

a 361

<210> 28184

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-025-Q1-K1-G7

<400> 28184

ggcgttttgcg atggggcgag aggccacgaa tgccggcggc ggggggtatcc gcgcgcggat 60

ggagcactac ctttacagtg gcgagaagaa gcacgtcgtc gccggcatcg ccattcttcgc 120

tgccgtcttc ggcgtcccat ggtacttcat gacgcgaggg gcaaagcatc aatctcacca 180

agattacatg gaaaaggcta acaaggcgag atcagagagg ctttcttctg gacagtcatc 240

tgcactaaaa gaatgaatgt tgtattgcct attctgggtc ctgaccttca gagctgggtca 300

tagatcatat actgtattng attgcactca acggatttga tctgntgnta aataagcagg 360

gtatctttct ttctaataac aggtgtggaa acgaagtacc gtcccaagat ttttgctact 420

ggtgatcctt ttttgg 436

<210> 28185

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-G8

<400> 28185

cccacgcgtc cggagaggag gtagcaacac cgactgctta atctcttctt tttcctcttc 60
 ctatctccag cgcattccaa gaggcggaaa gggaggatcg tggagcggcg aattattggt 120
 tgtttcccca agatgtcttc tccaagcaag cgccgggaga tggacctcat gaagctgatg 180
 atgagcgcact acaaggtgga gatggtgaac gatgggatgc aggagtctct tgttgaattt 240
 cgtgggccta acgaaagcat ttatcaagga ggtgtatgga aggttagagt agaattgcc 300
 gacgcataat cttacaaatc cccatcgatt ggtttcatca attagatata tcacccaaat 360
 gtcgatgaaa tgtct 375

<210> 28186
 <211> 328
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-G9

<400> 28186

ctctgctctc cccacctcc cggtcggga gcagagagcg ggggtgcaga gagatcgaga 60
 tccggaggcc gcgagtggga ggcaccac cagcgtctgc ggcaatggcg ggcacgggtga 120
 cggtcgggg gtcgtcgacc ccctccacgc cgctgctcaa ggacgagctc gacatcgatga 180
 tcccgacgat ccgcaacctc gacttcctgg agatgtggcg gcccttcttc cagccctacc 240
 acctcatcat cgtgcaggac ggcgaccga ccaagaccat caaggtgccc gagggcttcg 300
 actacgagct ctacaaccgc aacgacat 328

<210> 28187
 <211> 385
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-H1

<400> 28187

acaaaaaaac agaaaagaaa aaggaaaaaa aggacacaaa tgccagcaga aaaaggtata 60
 cacacgcgga tggagcacta cactttacag aggcgagaag aagcacgtcg tacgccggca 120
 tcgccatctt cgctgccgtc ttcggcgctc catggtactt catgacgcga ggggcaaagc 180
 atcaatctca ccaagattac atggaaaagg ctaacaaggc gagatcagag aggttttctt 240

ctggacagtc atctgcacta aaagaatgta tgctgtattg cctattctgg tccctgacct 300
tcatagcttg tcatagatca tacactgtat tgatctgcac tcaacggatt tgatctcgtg 360
ttaaataagc cggttatctt tcttt 385

<210> 28188
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-H10

<400> 28188

ggctacatca caagaattta tgaccactat tgctaataca acaattgaga tcgagaattt 60
aaagaagtcg ctagcagaaa ataatagcct tcttcgtcag atactaagca ccaatcgagg 120
catgtctcct ccttaagatt gttgctatag tcgaccatgc caatgttaca tccaacaaca 180
ctggactact tttttattag ttgtctatct agtctgatca tattgatact atagtagctg 240
tgtgcagctt gtggcgggtg aacatgtcct acttttgcac ttaagttata gaaaagttgt 300
gtgtgttcat gttgtttgat gaaattgtat gcacgggttg gattgaattc aattatatac 360
tgattttatt aatt 374

<210> 28189
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-H11

<400> 28189

cccacgcgta cgccccacgcg tccggaaata agcatataac gaacacagta accatcgact 60
tgcattggcca acatgtccaa catgctatga accttctcaa aattcacatg atgattttgta 120
tttgcattcc atctgtctta ctgagggtaa ttaccgggtg tggttcagaa ggtacagggga 180
agggaaaaat aaagcgctcg gttatagagc ttgcggagaa ggaacatatt gagtggcgcg 240
aagagaactc tggaactgta gcccttcgac ttgggtgggcc aagagagtat cggttccttg 300
agcatgaaag cgattctgac ctagtgggga actttaacat agattaactt ctgatctaata 360
ctatgtattc ccgtatttat gtgttatagc tatggatgc 399

<210> 28190
 <211> 389
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-H12

<400> 28190

cccacgcgtc cgccccacgcg tccgggagtc ggccagaatt tgccgtagct ctcgcccccg 60
 ctcgccgtgc gcttctcgtc ccattccccc gggatcgtag attctcgagc tgagcagagc 120
 tgagctgagc tgagcgatgg atcgcgagct cagccccagg ggcaatgctc cagggagagg 180
 gagcggcggc gcgtcgtcat cgaagcacia gaacggcggc ggcggaaga agccgatcaa 240
 ggtgctttac atcgccaacc ccattgcgct ccagaccagc gccgagggtt tccgcgccct 300
 cgtgcaggag ctaccggcc aacacgccga tcccttcaag tactgccccg acgaccttga 360
 ctccggcgct gccgcacagg gtctgagcc 389

<210> 28191
 <211> 328
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-H3

<400> 28191

gtgagaaaaa ggccttacct gaaaatgttt cttgagaagg ttgctcagat gtttgagggtt 60
 gtcattttca cagctagtca gagagtctat gctgagcaac ttatagataa acttgaccct 120
 gatggaaaat atatctcacg gcgtatttat cgtgaatctt gtgtattctc tgacggttgc 180
 tataaaaagg acctgacaat tctggggatc gacttggcaa aagttgcaat agttgacaat 240
 actccacagg ttttccagtt gcaagtggat aacggcatac cgattaagag ctggtttgat 300
 gaccctcag atcaagaact gatcgaag 328

<210> 28192
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-H4

<400> 28192

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cagcgatggc caggtatgag ctaagccgaa tatcagccgc tgtgttcatt gcacttggtg 120

aaggaaaagt tcagtgtcgt ggcaatgtac gaagcctcgt ctttcgtgga tggttcagca 180

cgatgttgtt ggattttggc tggcttcagc gctgccccaa aggtctagac ctaagatcac 240

tggaggagaa tctagggcga ggcattttaa ccctccctct gaggcagcag caatgtttgt 300

ttgaagaatg gttccagttc tattcgacca aagggtctga gtgtccgaac cttattaggg 360

ctttccaggt atggtggaga aggtctttcg ttagatcgtc ggtag 405

<210> 28193

<211> 282

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-H5

<400> 28193

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cagtgggtggc gattaacgag ttttaggaaca gcaaccctgg tatcatacgg gttattcttt 120

ttgtagcctt ttggagagtt ctatcggttt tggattcggg agtttatgaa ggcttggtga 180

tgagtttgag ctogaatagc ttttgaaaca gccgatgat gccatcttta ataaacacaaa 240

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<210> 28194

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-H6

<400> 28194.

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aatcctctcc ggaaccgcgt tgagcagggc acggctgatt ggatctagat tctaggggtga 120

gggtccgtcg ccgaagaaac tcgcagggcg tcacgaggag gcggcggggg agggcggagg 180

agatggcctc ggaggagatg acggcgacgg aggtggctgc gctgctggac ttgaagccgc 240

acccggaggg cggtttctac accgagacct tccgcgacgg ctccatcacg c

291

<210> 28195

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-H7

<400> 28195

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ggaaaagatc aactgcttgt tttgattaga aagtccccag aaggctctgc tgttgaggaa 120

gtcaaggatg catattcaaa tgtattggaa gatttgcagg ctctgaaggc tgctggtgag 180

gtttggctgt tatcaaacaat ggactcccag gaggacattg tataacccaaa tgatccacaa 240

gcatagatca aggttgatga tgacctgaag caacttttcc gtga 284

<210> 28196

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-H8

<400> 28196

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gggttttgct caccgccttc ctctcgcct tctctcctgt cgccaccctt ttcaccgccc 120

gagttgctag agctgattcg gaggaagatg ctgctgcagc tgaggttggt gaaggggctg 180

atctaggtat tgtgggtgat gatacacagg tttccagtga tggaccttta agccctgctc 240

ctggtgtaga gacagtagtt gtattcccca aaaatgctgg caaaattgta ctagcagggtg 300

aagaaaactga attactagtt ggtcttgcaa atgagggtga atc 343

<210> 28197

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-H9

<400> 28197

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 gcccaaagta gtcagtcgtc atcgtctctt ccgatcgctt cgagttcatt acagtttagcg 120
 ccgctaatacc cctccctaata caccatccat ccatccatcc ggtaggattc ccagcccatg 180
 tcggcgactg cgggtgaagtt tcccgtggag gcgcccgcga ggacagtga ggtcaccaac 240
 gtctctctta gtgcaaccgt gcaagacatt aaggagttct tttccttttc aggagatatt 300
 gaacatgtgg agatgcagag tgggtgatgag tgggtctcaa ttgcatatgt cactttcaaa 360
 gatgcacata gcgcaaaaac tgcacttctt ctttcgggtg ccacaatagt tgatctttct 420
 gtcacattg ga 432

<210> 28198
 <211> 423
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-026-Q1-K1-A1
 <400> 28198

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 ccgccatgga attcgatggc ggccaacgcc gggaataaga tccgcaacgc caagctgggtt 120
 cttcttgag atgtgggccc tggcaaatct agcttggttc ttcggtttgt taaggacag 180
 tttgtgaat tccaggaatc aacaattgga gcagccttct tttcccagac cttatcggtc 240
 aatgatgaga ctgttaagtt cgaatatctg gatactgccg ggcaggagag gtatcatagc 300
 ttggctccca tgtactatag ggggtgcagct gctgccattg ttgtctatga catcacaat 360
 ccggcctcct tcacccgtgc caagaaatgg gttcaagaac ttcaagctca aagaaatcag 420
 aat 423

<210> 28199
 <211> 243
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-025-Q1-K1-G5
 <400> 28199

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actgtcagaa tattatggct tgctgattac catagatata tataaatgta ctgaacatat 120
 ggatttattg aaatcagggtt aatgattaat gaacatcagg atcatttaat acatgaatta 180
 gctgactaat cattagatat gtaaattgag atattatgag gaagttagta taacacatga 240
 tag 243

<210> 28200
 <211> 308
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-F11

<400> 28200

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 aaaccaggac agccgggtctt gtggatccag agcttgggac gcgtgtctag agacgcctat 120
 ctcttctatg gcgcatgcta gatgactacc actggctgcc gtgttccaac ttcgggtctg 180
 ggaaaaccat tttcaatgcc cagcttattg gccttgcagc tcatcccat ttcgccgagc 240
 tgggtgaatg cccaagagtc cctgaccgtt cgtcctttcc aacagtttgc gcacctgaat 300
 ggctaattg 308

<210> 28201
 <211> 271
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-F2

<400> 28201

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 ccaagtgcta tggtagcggt tccgcacag aggttgagtt ctggttggct ggaaacttgc 120
 gtgcactgca agctaagact tgaacatgaa gcactattgc atgtgtgtgt attctcattt 180
 ttttattaac catctttttg gtcgggtcta tacaagtga tttaccccat tgcttagcag 240
 caaagcatta ccaatttga tcaaaacaat t 271

<210> 28202
 <211> 309
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-F3

<400> 28202

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ccccattgcc tatttcgggtg gatgaaaggc tagctagcta catactccct cgtgctccta 120

eggctcaagt tcttggcagc agccatttga aagaagaacg aagagtatgg taggccactg 180

ctagacaggg aagcagctca attttcagca gcagtttgac caaaaatata tgaagagcca 240

tgtgcttggg agtctgcatg gagaagcata ggtgaaagaa cgatctggct tttctgatgg 300

tctcaaagc 309

<210> 28203

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-F5

<400> 28203

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agcggagcgc cttgggtgat taagaagagg atggattcca gtatctccct cctctgcgcc 120

ctcgtcctcg cctcctccct cctgcaactgc gccagatccg acggcaatga cgcgagctc 180

ctcaagggca tcaacagcta caggctcctg ctcaaggctc eggcgctggc cgagaacaag 240

aacgcggcgt gcctggccga gcagctcgcg agacagttca aggggcagga gtgcaccaac 300

acgacgggcg ccaacaccgt catcggcacc gagcagcagt tcccggacta cccaggtac 360

ctggaccgct gccacctcaa cgcgctcggtg accgaggacg gccaggtgat gccggcgtgc 420

gtgcc 425

<210> 28204

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-F6

<400> 28204

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 ttcctccgtg tgagaccaag aaccatgggc ttgtcctgga ttagcggtgt ctttagttaa 120
 aattatcagt gagtagtagc tagcttaagc agtgctccga tccgagatca gttcttccag 180
 cagacctgtg taaatgagag tctcgccgcc ccgccccgcc ccggtgtaac gcacgtcat 240
 gtgtaaaatc tatccggacc cgataaagtt ttgcccttct gtcaaaaaaa aagaacaacg 300
 atgc 304

<210> 28205
 <211> 279
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-F7

<400> 28205

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 gtgccccggt cccgccatcg ctggctcccc gatggacctc gcggctagtg tggggccatg 120
 gatccccgac ggatcgaggg tcgcgcgcc tcatgagaaa aatcatcttt ttggctcgaa 180
 cagaaaatac ctgaagcttc aatttgacat cgtgtagcaa tgaatgcgtg caaagaatgc 240
 tcttttacat gttgagaaat gagaaaaatt agatgtcgt 279

<210> 28206
 <211> 310
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-F8

<400> 28206

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 cctatggcgg aacaagggat gccgtgagga caaggaccgc acaactgacg atcttctacg 120
 ccggttccgt caatgtgttc aacaaccgtc tcagctgaga aggctcaaga gtcacgtgct 180
 ctagccagca gaagaagctc agccccctg gcctggtagc cagaagctcc tctactctc 240
 gcttcagcga aagtcacagc gcctgaggtt cttctgcctg cgaagcagat gcttgttcaa 300
 aaaccacagc 310

<210> 28207
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-F9

<400> 28207

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cgagaagacc gagcccggtca aggacgagct gtaaacagcc ttggcggtga cgctatgggt 120
aatgggacag aggagggggg acaaaagctg gcgccaacgt actcgccaag cctccggctt 180
tagtttttgc gaggggaagag ggcaaagtaa gagaatggga gggaggggtc tgtggcggtg 240
tttgctctgg tgcggcatgc ctgtgtatcc cattgagatt ctgtacaatt gcaaacagag 300
agcggtacct ttttagttaa ttatcagaga tgactgtaga aagaaactga ttgtggtgag 360
gttgagtga cgaataaatg gcgagtct 388

<210> 28208
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-G1

<400> 28208

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ggcctaactt tgagtttttt atgtcttgct gctaagcctt gatatgcatt taggtactgt 120
ttttatgtct ctaggaaatc aatctatgtt ttctcaactt ctggatcatt taatacttga 180
aatagctggc taaccatttg aaaagatata tgagatatca tgaggaagtt atcttcacac 240
atgatagaga acagaagttt agaatttttt tttctctaaa ctcagatttg atttcacatg 300
actatagttg ctactgcaat cttaggg 327

<210> 28209
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-G10

<400> 28209

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ggggaggagg ggaagacgcc accgcctgcg gggtcgatcg gcgggtacga gtccctgcac 180

aggctcctgg aggccaacct ttccccgat ctattccagg aagcaagtcg attgctgctg 240

ggactgaatt gtgcacgacc tcttgaggct atctcactgc ctgacgccac aaccactctt 300

gcggaaacac acagttttga tttgcaggca ttccgtttta gtgcagacaa agagtttctg 360

aggcaatcaa gagctgttcg agtaggtcta attcagaact caattgctgt tcccactact 420

t 421

<210> 28210

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-G12

<400> 28210

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gccgcgggctg tcgggatgcc ggtcaggggtg gtcgataccg ccacgccttc ctgcgagccc 120

tccccagggc aagaagcaaa tactggacac ccatctcctc ctagatgttc actcttaagt 180

gctggaagat cttttgctgg aactcagaat gtttcaagtc tgcagaagga tgaagcatgg 240

aaagtgaatg tccgcatcca tggttgcat cttgaacagg gttatctatg tggaacgatg 300

gaagcgctta atgttccatt agcagatata cctgtagtga cattctggga gggggagata 360

gtggatgcta aaaattacac ctttttctact ggcaagtggg aggcatacacc agaggatgat 420

ataagacatt ggtccaagtt cccatcattt atgcct 456

<210> 28211

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-G2

<400> 28211

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 tggttcatgg cacttttcat ctgcatctcc gtgaccggca tcctggaaat gaggtggagt 180
 ggcggtggcca tcgacgactg gtggaggaac gagcagttct gggtcacgag aggcgtttcc 240
 gcgcatctct tcgcggtggt ccagggcctg ctgaagggtg tcgccggcat cgacacgagc 300
 ttcaccgtga cgtcgaaggc cggggacgac gaggagttct cggagctgta cacgtttcag 360
 tggaccaccc tgctgatacc cccg 384

<210> 28212
 <211> 318
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-025-Q1-K1-G3
 <400> 28212

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 ccaaagaggg cctaacagtt ctagaacgac agacggccac cagaaacttc tattcatcat 180
 gtttcgggat ggaacatcaa ttcagcacgc cgtcacatcg gcagctcgcc gctatctgct 240
 atcacaacct tgctcttcgg ctccccactc tgccggnctt cagcttcgac ctgttacaca 300
 acatccattc cagacaac 318

<210> 28213
 <211> 362
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-025-Q1-K1-G4
 <400> 28213

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 gagcagaacc aaggcgaaca tcgcgaggac tgtgaggcag agcatcgaga gggtgaggat 180
 caatgcccaa tgggtcaaga acatcaaggc cgaggctgac ctcgccaatg ttctcaagaa 240

gctggcttac aagcactgat cagagacggg ccactttcat ttctgtgta gtcctagtag 300
 cgagatgtaa ctttgttctc tggaataagt ggattaataa agggcacttt cgtttgtgtg 360
 tc 362

<210> 28214
 <211> 463
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-025-Q1-K1-F10
 <400> 28214

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 cggcggcatc gtgcccgtca actaccaaag ggtgccgtgt gtgaagaaaag gcgggggtgag 180
 gttcagcatc aacggggcgg actacttcga gctgggtgctc atctccaacg tgggcggctg 240
 cgggtccatc cagtcggcgt ccatcaagg gtcgcgcacc ggggtggatgg ccatgtcccg 300
 gaactggggc gtcaactggc agtccaacgc gtacctcaat ggccagagcc tgctgttcca 360
 ggtcaccagc agcgacggcc agacaaaac cttccccgac gtcgcgcccg ccagctgggg 420
 gttcggtcag acgtttgcga cctcgcagca gttctcttag tat 463

<210> 28215
 <211> 382
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-025-Q1-K1-D5
 <400> 28215

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 caccaagggg ttaggatcgg cggcgatggc ggcgaggctg gcacagctgc gcgctcaggc 180
 ggtgcaggcg gcggagttcg cctcgaagca cggcggctcc tactacaagg agctcatgga 240
 gaagaacaag cagtacgtcg tgcagcccc caccatcgag aaatgccagg agctctccaa 300
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gcttgatggt gtcaagcagg ta

382

<210> 28216

<211> 229

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-D6

<400> 28216

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eggcgtcatt gtccttatag atctccttgc acctcgttgc cacacctatc cccttatatc 120

caccaagggt acatgatact tcataattgc tgcgatgctg gcacatctgc aactcatgc 180

ggttcactct gacagaattc gcctctaagc acgactacat tctactaca 229

<210> 28217

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-025-Q1-K1-D7

<400> 28217

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cgcgggggtg gccagatcg acggccgccc ggtgctgcag ccggcgggca accgcgtggc 180

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gccggcctac tacgacagca atgccaccgc gggcgcccgt cctgcgccgg ccgagaacac 300

ccgcgcaagc gcagcggett cgtctccgct gcctnccgcg aaagcgacga atgcagctgg 360

cgctttaccc gcggagaaga gcggcaggcc caaggcggcc aggatgccag gcgccgttgc 420

cgccccggtg gtg 433

<210> 28218

<211> 391

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-025-Q1-K1-D9

<400> 28218

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tggtcttagt gcagtgcaca ggaacttcca acggagtatg tgcaagtcgt cagaagttgt 180
tcaaggcagc ttgtttgtca tcatcaccag ggatacaaga catgcttcct cagtaagggtg 240
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atcttccgta tgggtgttatt ggaatttgtg tgacagttcc tgtaaaactaa tgcagagaga 360
gagatccagc ggtgctcctg cctnctaaat c 391

<210> 28219
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-E1

<400> 28219

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tagaattcta tgagactcct ctaggatttg tgaacttcaa aatctatcat tcaataaatg 120
taaattatcc tcctattctg gatccacgtc tggaagcttt agctgttgag ctctatgcat 180
tgtgccgata catgtctgct ggttccagaa gaatgattgg gaattcacia actgacgaag 240
taatggaaga taaggatgag aaaagtaaag ctgaggaagt aattgaggaa gagaagggtg 300
tgaagaataa agcaagctca aaagcagatg aatctgagtt cagattagca cagcttcaac 360
atcagctccc aaccaatgaa cctgggtgcac tgatgaatct tgtagaagaa tcaactgccg 420
atgatgcaga tgatgatga 439

<210> 28220
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-E10

<400> 28220

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gaaagaacaa acaggagaca gatggcggct gcagcgaagg cgtcgtggat ggtggcgatg 120
agcgtcgggg ccgtggaggg gctcaaggac caggcggggc tctgccgctg gaactacgcg 180
ctgcgtcccg tccaccgcgc cgccaaggcc aacgctccca gcttcgcgca ggccaggaaa 240
aagctggcgc cgcccgcgc ggacaaggcc gccgcggagg aggggatgag gaccgtcatg 300
tacctcagct gctggggccc caactagcta gggcctctgc tagtttcggc ttctgcaac 360
cgtaccgagc tcggcttcaa atctgatcca tgactgggtg ccttgccgac ccactgtaac 420
ataagagttt agcaccacga tgatgatga 449

<210> 28221

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-E11

<400> 28221

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gcgtcaccag cgcggggtac acccacatgg cggcgcccgc gacaagcgcc accttcagcc 120
tcagtctgcc atacctgcag aatacccagc cacaccagca tcaggacggc gggatcatgg 180
ccgggctctc taggacaggg tcccacagcc agtgcgtcga ccaacgcgcg gtccagaagc 240
ggacgcgacc gactgaccag tg 262

<210> 28222

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-E12

<400> 28222

cgcacacgtc cgggtgcccta ccaactacgc gctgcccac gacgacggcg gctggtgcag 60
ggcggcgagg caggacttag acatggtcga gccggcctgg ctcaagatcg agatctacca 120
gcgctgcac atgcccgtca actaccaaag ggtgccgtct gtgaagaaag gctcactgag 180
gttcatcatc aactggcgcg actactacga gctggtgctc atatccaacg tgcacagctg 240

cggtgccatc cagtcggcgg gcatcaaggg gtcgcgacc gggatggatgg ccatgtcccg 300
gaactggggc gttacttgg caattcaacg cgtaccttaa tggccagagc ctgtcgttcc 360
aggtcaccat ca 372

<210> 28223
<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-E2

<400> 28223

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aaaagaataa taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagt 120
aaaaaaaaat aaagtgtaat attataaata acatatatattt aaaatttttaa aaaatttgtt 180
ggctgcttcg ttgattagca ttactgcat ttggattaag aagggttagg ctttgtaaaa 240
tctgtcggta aaatatttta ttggtatgtg atttttaacg ctgttaataa at 292

<210> 28224
<211> 187
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-E3

<400> 28224

aaatttagga gtagggcatc gtacgtagtg actgttatgc tgttttagcc ttgctgtttg 60
tcgcccctac ctatactggg aactgtaacc atgggggtgca tctgtgcatg caaacgcgac 120
aagcaaaaatt cgggattatc aatcatctgt gctactcgtg ctctgttgat gatcttcttg 180
ttaaggc 187

<210> 28225
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-E4

<400> 28225

cggacgcgtg ggtgctgctg ctgctgctcg tggggctgag ctgcgccaat cccaactgtg 60
 aggagcgtcc cgcgatgcgg cgggtggtgc agatcctcaa ccgagaggcg gagcctgtgc 120
 ccgtgccgcc caagaaacca ctgctggtgt tcagctccag cgcgtccgcg aagctgcagg 180
 agatcgctt ctctgtggc gatgacgtcc gagggcgcta ctccgttgcc aagcctgcat 240
 caccaaagtc cgaggggagcc gacattgaac gctgacgcga agcagtcgat accaattaca 300
 ctactacaga ttttgtggtg tgggaatata 330

<210> 28226
 <211> 397
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-025-Q1-K1-E5

 <400> 28226

gagaaatccc tacgaagaag tactcattgc tttcatact tgggtgctga actctacctt 60
 ttggaacact cttcatcgag ctcttcttca ttctttctag tatttggtt ggaaggttct 120
 attacgtgtt tggttctctc cttgtcgtgc ttcttttgcg gattgtggtg tgtgctgagg 180
 tatcagttgt tcttacctac atgcatctct gcgcggagga ctggagggtg tggtggaag 240
 ctttcttgc ttctggaaca gtggccctt atgtgttct ttactctatc aactacttgg 300
 tgtttgatct cagaagcttg agtgggcccag tttctgctat tctctacatt ggatactctn 360
 tcgttgctcg ccttgccatt atgctagcga ctggtac 397

<210> 28227
 <211> 465
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-025-Q1-K1-E6

 <400> 28227

cccacgcgtc cgcccacgcg tccgcccacg cgtccgcgga cgcgtgggct tgttatgaag 60
 gtaccccatg tatcacggac tgtgttatgg ctgagcttga aaagctgggg cagaagtatc 120
 gtgtggcctt gagaattgcc aaggacccta ggttccaaag attagcatgc acacacaagg 180

gaacctatgc tgatgactgc attgtggaga gggtcactca gcacaaatgc tacatagttg 240
ctacttgtga tagagatttg aaaaggagga taagaaaggt tcttgggtgtt ccaatcatgt 300
acatcacaag acataggtat tcgatagaac ggctccctga ggccacaatt ggtggagcac 360
caagaatctg atcgggtgcag acatgaaatg ttctgggatg taatactatg gcggtacttg 420
tccatctgac caagtcacta tttcatgttt cagtccacga caagg 465

<210> 28228
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-E7

<400> 28228

tgctctgtac tcgtctcgga attcctcgtg tcgactccac gtcgttccgc tccacgacgt 60
ctcgaaaaga aaaataataa tagaataata aataaaaaga aaaaaagaaa aatataaaat 120
aaaggagaac aataataaat aagagtctat aaattaatat aatatataag tatgaagaaa 180
tatgaaaagg tatataatat acggtgttat ggaatttgta acttgatcgt gctatctttt 240
tgctgatatg tgggtgtgtgc tagaggattt cagtgtgttc ttactgtaca tgcatagtgt 300
gcgcggtgga catggaggtt gtgggtgaaa gctttatttg cttctggaac ataggccttt 360
tatgtgttcc ttactctat caactacttg gtgcaagatc tgaaaagctt gaatggacca 420
ggttctggta gtctatacat t 441

<210> 28229
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-E8

<400> 28229

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ccagatgttt caaatcacta taccgacata tgtacaaacg aggctgcctc tgttgcagca 120
gaatcttcag ccccatcagt tgagatagtg gcagagaaaa cagtagatga accatcggag 180
gcagaaagag cagtggatga accggcagaa tcattcttgg acagttctgt ctctatacct 240

ttgcctgctc ctgttaatag tagtgagcct gctaactcgg aagcctcttc cgaacaagtt 300
gcccatagaca actgatgt 318

<210> 28230
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-E9

<400> 28230

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gacggagacc aagggcaggc cttggttcgg ccttctggcg cttctcagga agtacccgga 120
gcactttgtc atcaacacga ggtccaaggg caggatgacc tcggagtctg tctcgctggc 180
ctccttgctc tcctagaggg acggagatgg cgtgttgtgt ccagcccggtg tccagaaggg 240
tcggaggtgt actggctctc gtttgcttgc cccttgctgt gtttcagcag ctgttatatg 300
gaccaccct gttgtgctgt agtatctcgt gtggctcgatc gaggcagctg cactgggtccg 360
tgaccgtctc tgtagtgctg gcagcagtgt atggaaagca tgcgttttaa gttttaacct 420
atgctagcaa ttcagcagca gctcgg 446

<210> 28231
<211> 313
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-D4

<400> 28231

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atgagtggga gccagagctg ctatgccctc caatcaagga gggggccaaa atagatgctc 120
caacattgga aagtgccgtt ggaccacata cgattgttga ttgttgatgg taaagaagtt 180
gtgaactttg catcaacatg aggtctggag tctagacaca gcgttgcaaa ctgaggttta 240
atcatcttag caactacggt acgtgaccct gagcgcgtga ttgttgcgaa acaatgacca 300
cctcgggtcta cac 313

<210> 28232

<211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-025-Q1-K1-C1

 <400> 28232

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 caccattgac aacgtcaagg ccaagatcca ggacaaggag ggcatccac cgaccagca 120
 gcggctgac ttcgccggca agcagctgga ggatggctgc accttggtg actacaacat 180
 ccagaaggag agcaccctcc acttggtgct ccgcctcagg ggtggcatgc agatctttgt 240
 gaagacattg actggcaaga ccatcacctt ggaggtggag tcgtctgaca caatcgataa 300
 tgtcaaagcc aagatccagg acaaggaagg cattccaccg gaccagcagc gcctgatctt 360
 tgctggcaag cagctggaag atggccgtac cctcgccgac tacaacatcc agaaggagag 420
 caccct 426

<210> 28233
 <211> 451
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-025-Q1-K1-C10

 <400> 28233

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 gcctctcca ctcgcaccga tggcgaagga accaatgcgc gtgctcgtca ctggcgccgc 120
 aggacaaatt ggatatgccc tggttcccat gattgctagg ggtgttatgc ttggtgcaga 180
 ccagcctgtt attctgcaca tgcttgacat tccgccagca gctgaagccc ttaatggtgt 240
 taagatggag ttggttgatg ctgcgtttcc tcttctgaag ggagttgttg ctacaactga 300
 tgttgtggaa gcctgcactg gggatcaatgt ggccgtcatg gttggtggat tccccaggaa 360
 ggagggaatg gaaaggaaag atgttatgtc gaaaaatgtt tcaatctaca aatcccaagc 420
 atctgcccta gaagcccatg cagctcccaa c 451

<210> 28234
 <211> 342
 <212> DNA

agcacggtga gcataaagct gggcttgccg caccggaacg ccggcgcgga cgagcgcagc 60
gagagctgcy agccggctat ggacgagata caacgcgagg tgtactcgaa taaaggcgtg 120
atgcttcagc tgatgcggtg gacacgtccg cgatgggcca cggttg 166

<210> 28237
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-C4

<400> 28237

gcgcctctac atttcttctc tctctgtctc tccgcctccg cctgatccat ccaagacagg 60
gatcgccatg tcggactcgg aggagcacca cttcgaatcg aaggccgacg ctggggcgctc 120
caagacctac ccgcagcagg ctggcacctg ccgtaagaac ggcttcatcg tcatcaagaa 180
ccgtccctgc aaggttgtgg aggtttctac ctccaagact ggtaagcatg gccacgccaa 240
atgccacttt gtcgcatag acatattcaa tgtgaaaaag cttgaagata ttgttccttc 300
atgacacaac tgtgacattt cccatgtga 329

<210> 28238
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-C5

<400> 28238

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aatagctgca tcggctatctt tcttgccgag atttatacta cagccaacaa agtatccttg 120
gaattccaca ctgcgtcatt acacacagta caaacctcc aaattgagcg aatgtgtaaa 180
ggcattgcat cgcctttgca gcgttggttc tggtagcaac cttccagcaa tcagagaaaa 240
gtacagtcaa cataagtaca aatttggtgc aaagaagcag tgtccaccgc agatccctac 300
tgaattcttt cgggacgcga catgctagac tagaaaccca aaagtgattc cagttgctta 360
ctggaatctt cttgatgtgt cttgaatgcc cagtgtagca cagcacaatt atgccagtgc 420
tgataacccc ca 432

<210> 28239
 <211> 276
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-025-Q1-K1-C6

<400> 28239

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 tccggcatgg cttccaagca gatcggagtc ttgacctgct tcattgccat caccgctctc 120
 gccttccgtc cctgcgcata cgccgtgccc atggacgggtg gctggtcgaa cggcggcgcc 180
 acctggtacg gcccagccaa gggcgctgga tccgacgggtg gtgcgtgtgg gtaccagggt 240
 gccgtcgacc agcctnccgtt ctcggcaatg atcacc 276

<210> 28240
 <211> 454
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-025-Q1-K1-C7

<400> 28240

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 acaatggtgc cctagagaat gcatgcagtg agcttggagc ccgtatgtct gccatggaca 120
 gctctagcag aaatgctggc gatatgcttg atcgtctcac gcttacttac aacaggacac 180
 gccaaagcatt catcaccaca gagcttactg agattatata tggatcatca gcccttgaag 240
 gataggtgaa gagactatgt ggacttctgc ctttttcccc atttgtgttc ctcacacatg 300
 aaagcttctt ttcttccgga agctcagttt caacccttct cgtttcactt ttgcttgata 360
 aacgtattct catgctttat tgcaataatt aagccaacga cagtgatgat gccgtgcgta 420
 tttgcatatt gcaaaaagaa tggctctacat ctat 454

<210> 28241
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3067-025-Q1-K1-C8

<400> 28241

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ggccgacgcg caccagcaga tcccaaactc accggggagg agggagtggg cgaccggcgg 120
cggcgatggg tttcatcatg gagttcgcag agaacctgat cctccgtttg atggaggacc 180
cggacaagcg cgaccagggt cgggcgggagc atgcctacaa gatgaaggag cggtgcgagc 240
gcaccaaggc ggcgtggagc ctncctctgc gccctacag cttctggacc ttcgaccgct 300
tcaactcgca gctctcctgg gacctgcaga tcagccaggc tgccggtcgc cgggaccctt 360
acgacgacct tattaccgc actccggctc ccggc 395

<210> 28242

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-C9

<400> 28242

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ctacttgaag aagggccgct acgcgcagcg tgtcggcacc ggcgcccccg tctacctcgc 120
cgctgtcctc gaatacctcg ccgctgaggt tctggagctc gctggtaatg ctgccaggga 180
caacaagaag actcgcatta ttccgcgcca cgtgcttctg gcgatccgga acgacgagga 240
gcttggaag ctgctgggcg gcgtagcat cgctcacggc ggtgtgctcc ccaatatcaa 300
ccctgttctg ctgccaaga agacggcgga gaaggcgtcc agtgtgggga gcaaggaggc 360
aaagtcgccc aaagaggccg tcaagtcgcc caagaaggca tagactgact gtctggagtg 420
atc 423

<210> 28243

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-D1

<400> 28243

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 atggacagat ctagcagaaa tgctggctat atgcttgatc gacttacgct tacttacaac 180
 tggacacggc gagcatccat cactacatag cttactgaga ttatatctgg tgcacagcc 240
 cttgaacgat aagtgaagag actatgtgga cttatgccta tttgcccaat tgagatcctc 300
 acacatgaag gcttattttc ttccggaggc tcagtttcaa cccttatcgg ttcactgttc 360
 cttgatgaac gtattctcat gctttatt 388

<210> 28244
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-025-Q1-K1-D10
 <400> 28244

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 agatcatgac tggtggccca cacttcattg aggcgaacaa cttcctgtgg ccattcaagt 120
 tgaatgctcc gctgggaggc ctaacgaaga acaggaacca ctatgttgag ggcagtgatg 180
 ctggtaaccg tgagaactac atctatgagc tcatccaaag gatgaattat gttcacgac 240
 gagtcattg ataccctgtg ctctaagcga cttgtgctat ccttatttta tattagaaag 300
 ttggatcgtg gatgaatatg catgcagggt tgatgtttcg aactagatgt gtctggaaga 360
 aatctgatct tctttctgga ggttcgggat tattatttaa agcatttcgt atctaagatg 420
 ttagcacc 428

<210> 28245
 <211> 201
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-025-Q1-K1-D11
 <400> 28245

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 aggtcacaaa ctgacatcac acagtcatt gaaagggtta ctggcttagg gtcccgtaa 120

gttggtgta gtgctttgca gacgaacttc caacaggaaa tgctctggtc gtgagaaaaa 180
aacttaggga cctgggaaat c 201

<210> 28246
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-D2

<400> 28246

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gtatgtgata gcagtcactt caactccaag caaggtccat aaagctgttg atgcctgcaa 120
aggtgttctg agaggattgc atagtagccg aattgtggaa agggagctcg atcgggcaaa 180
gaggacactg ttgatgaaac atgaagctga gacgaagaca aacgcctact ggcttggttt 240
gtttgcccata ctacaatctt catctgtacc aagaaaggat gtatcatgca tcaaggaatt 300
gacgacatta tatgaaaatg caacga 326

<210> 28247
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-B9

<400> 28247

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aggtggtatt gagtcggttt aaatccatag caagctaaaa ttcattccaa tttattccaa 120
tacctccaa tccacatgta attagaataa ctgaacaagg tcttcagtgt ttcattctat 180
tccacacact tagttcaact ttgtttaagg tatactacat tacccttgta cactactcag 240
cctgtgagtt catatcggtt atgatgattg cctgtcactc atcaaatcat acttttcatt 300
atccatagaa aaaaaaacg aattagggtt ttaagacagc tagcttttga tacatgtgtg 360
tgttatctca atattatgag ggctccaaaa gagtatgatg ggtagctcga gtaaatcgaa 420
ttaaactatt ttttactggc agatatctgg aacagttta 459

<210> 28248

<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-D3

<400> 28248

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ttcagagcaa gagccttggc agtctcgata gtttcacac ttgaaacttg tagagtttca 120
tcaaggagat caacatccaa gactccaggg ataaaaccag ctccaattcc ttgaatcttg 180
tgtggtccag gttttccacc attcaaaaca gactctcca ctggctccac accatagagc 240
ttgacattag gatcttgctc tctgaggtat cgcccagtac cggatgatgt acctcctgtc 300
ccgataccag atacaaggcc atcaattttt cctgctgtag ctttccagat ttcaggccca 360
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ttgggtgtct ttgcttgat ctcttccgct ttc 453

<210> 28249
<211> 306
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-A3

<400> 28249

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tctgagataa tgaaaagcgc tgaaagagaa cgagctctaa atatgctcat ttcactattg 180
tgttcacatt ggctagcatg gaagtgtgtg tattaggaaa ctgccgcaac tgtattttcta 240
aaaataagga ttatctcaac ttaattatta tgcaacaaat taatcattta tgacaaatag 300
ggctat 306

<210> 28250
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-A4

<400> 28250

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tcgtgtgaca gtcaactgat ctatgcaagc tttatggatg ccactgttgg catatttaat 180

gcatcgagtt tgagacttca atgtcggatt cttccagctt cgtatctccc cccaaatata 240

agtcgcagtg ttcattcctgt tgtgggttgcg gcacaccctt cggaagcgag tcagtttgct 300

ctagggctga ctgatggtgg tgtttttgtg gtggaacctt tggaatcaga tagaaaatgg 360

ggaaattctt caacggtaga aaatgggtct ggttgcaact tggccggaac ggcttctaata 420

<210> 28251

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-A5

<400> 28251

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aaaactagct agtagctgcc tccctcgatg caagcatgaa atatgcaagc atgcgtgcat 120

ggctagctag cttctcaaac tcaagttatt aattagtata gttataaagc tatatagcca 180

cttcaaactt gggacgagcg agctgaatct tctgtttttg ttactatggg atgggtgtgtg 240

catgaaggaa agaaaatggg aacacatgga catgcaagtt gattagtaag agagtttcat 300

tgtatccctt atatatcttt gtgggtgcatt attttttact tagttcgcgt atgtattatt 360

gtggggagtg ggggaaatgt gaagggttac tgataaacg ctcgtaacat ggggggtggg 420

aagggtgtac acatgtataa tctctggggg attat 455

<210> 28252

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-A6

<400> 28252

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 ccggaccag cctgttcgc cgcgcgcgcg gtgcccaggc cgtgccagat ctgcgagatc 240
 cgcgccgaca ccgtacgac tatcaccagg tggatgctct cgtgatctct cggaggccgc 300
 ggggactgag cagcgtctcg gcggcggcgt ggctgcata agctgtggct tgccgagatg 360
 caacggaacg gggtggtgga atgc 384

<210> 28253
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-A7

<400> 28253

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 gggtagctag atcataacac tcaacttatt aattaacata gacataaagc tatatcccca 180
 cttgaaacat gcgactatcg agctcaatct tctgccattg ctactatgat atgctatatg 240
 catgacgaca ccaatacgac tataaataga catagctct gatgagctct gagagtgccg 300
 attggactga tcatatatct ttgcggtgca ttattctgta cagatgttgg ctatgcaaga 360
 tgcaacgg 368

<210> 28254
 <211> 409
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-025-Q1-K1-A9

<400> 28254

ctctctctac cccctatatt cctctcccat ctcttcgccg tcttcttttc ctcccctagg 60
 tcggtctcct cccctctccc caccgaggtt cccctcctt ccttcgcttc ctttttccc 120
 tgtcgccggc ggcgacaggg ttccgttttc cttgctccgg cgggctgtaa atgcttccgg 180
 ccctcttcgg tgctcagat ccggtggtgc tcgttcttct ggtcttgatt cgagtgggag 240

gggaaggggt cgcttcggtg ttgggtgact cggagacatg cctgcgctct acgcttacgg 300
 agatgacggg tgcctcgtct cggcgccggc tgagctggcc ggactcttct gccgcggcgc 360
 cgtgcagcag cggaagcgca cgctagtggc cgcgtccgct gtggccgnc 409

<210> 28255
 <211> 329
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-B1

<400> 28255

cggacgcgtg ggggtgcgggt gcatggggta cgcggcgctt gccgacaagg cgccggacaa 60
 cgggctgacg ggggttcggct tcttcgagcc attctggctg atcgacgtgg ccaacgtggc 120
 catcgtggtg cacctgggtg gcgcgtacca ggtgttctgc cagcccatct tcgccttcgt 180
 ggagcgccgc gccgtcttgg cctggcccga cagcgccttc gacgcgcggg agtccgcgt 240
 ggggccccct gccctcagcg tgttcgcgct cacgtggcgg tcggtgttcg tgtgcgcat 300
 caccgtggtg gccatgcttg tcccccttt 329

<210> 28256
 <211> 426
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-025-Q1-K1-B10

<400> 28256

gatagaatat agaattttta aaagggagcg aaataggttt tttccttttt gcagctccgt 60
 cgtccaccaa cctcctccga tccggccgct gcagcgtagc cgaattgtcc cctcgctagc 120
 ttctccggcc ggctagaggc tgtttcagge ggcctcgatc tctccgcgc ggctgaggaa 180
 ggagatcacg cggttgctca ggggctgggg cgtgcatgat gggatttttg ttgattccga 240
 tggagactcc ggcgaggctt ctgtggagca cgagcttctt ccgccacaag atcgccgcca 300
 tgctcgctn ctctcctgc ttcttataga tcccaccnc tcgccgtcgt cgtcggcacg 360
 gcagctagct cgctagcttc tgtacatagg tcgacgcgcc atatagatac tagtctcgga 420

ttaagc

426

<210> 28257
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-B11

<400> 28257

cacgtacaca ctaatggcta attcggatca ccgttaatcc atgtgtattg gctggtactg 60
cggccacata gatcctgcga tcatccatat caagctaaaa ctcattgtaa tttatttcac 120
tacactggac tctcatgtc tgtagaatga ctgctcaagg tcttcagtgc gtcatactat 180
tgcaaact cagttgatca ttgtctaagg catactacat tatacttgta cactactcag 240
cctatacgtc catatcgctt atgatgatcg ccagctactc atgacataat acttttgatt 300
atctatacta ctacataccc tattaagaga ttaagacagc tagctgtcga tacatgtacg 360
tgatatctca atattactag ggctcctaaa gagtatcacc atatacatgc tgtaatcgga 420
ttaaacta 428

<210> 28258
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-B12

<400> 28258

cggacgcgtg ggcggacgcg tgggcggacg cgtgggaggg tgggctcaca aaagatcata 60
gctcaacaag ttgtggggaa taatgtgcat gaactcacca aaggtgggag ttgatgtgta 120
gtgtaaggct gaacaacaaa taatgggttaa agctgagcat ctcttttaaat aagttggtca 180
aaaattatta gcacttacta aatgtaagtg tatgccaacc caaagtaata gtaaatcaaa 240
attaataata aaccataatg tgatgcaaata gacaaattaa gtttacttcc acaaattaat 300
tatgtgagtg tacgagctat ctaggtggcg tctcctagtc agcttgatgg cgccaaggaa 360
taattattag ttctttttat tggtatcggt tatttttttt aagactcttc cgctatgtaa 420
taatgatgtg acatttatct ctataca 447

<210> 28259
 <211> 300
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-B2

<400> 28259

cccacgcgtc cgccccacgcg tccggcgga cgcgcacgc ggacgcctcc ttgttccggg 60
 tctactccc gccgcctaga ggctcgcgcc tccccctcc ggcgaaaacc gattctctcc 120
 ggcgtttcct ggtcccttag tgcaagcaag gacaccgctc ctctagcgag ctccgttctg 180
 aagcggcaag aaagatgatt aatcttttca aaataaaggg tcaaaagaaa gaggaggcag 240
 caagtgctgc tggaaaggcc cctgttaaga aacagtctgc tggggagctc cgtcttcata 300

<210> 28260
 <211> 459
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-B3

<400> 28260

cccacgcgtc cgcaaacctg tgcgtctgcc cttttccagc tttcctctca aacggagaga 60
 tgtactcgga tcagatctcc accggggcgca agcgcctcat ccatgaccgc cttgacggcg 120
 acctccctgc cggcacgggc gccgggggcc gtgtccgtca cacggtgtcc aagaggcaac 180
 gacagataga tgaaaaatgg aagcatgata tgtatcgga agatgatgaa ccagcttcaa 240
 aatcaacaga tccgaaggat ttgcgattga agcttcagag gcgaagtttt caacaagatt 300
 ttaccagcac aagaagttct ggtgtgcgtg atctacgtga gaagctatct ggtataatga 360
 acccacagcc atcaaagtct gaccaccaa agccaaagcc aaagccagta tcggagggtg 420
 gtaacatctc aaggcgtcaa attgctgatg aaatgcatg 459

<210> 28261
 <211> 318
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-025-Q1-K1-B4

<400> 28261
 cccacgcgtc cgcccacgcg tccggaaccg cagaagtga gcagaacgat cggatctagc 60
 agagttctct caacctcatc ggcgggcggc aagagcgtgc ggatcggaga tggagacaag 120
 cgggtggagg aggagagcgg cggcgcgggc ctntctggagc cccgcçacgg tgtacctgtg 180
 gctcgcgctc gccgcagcag cactgacgct cgcccaggct aagaaggacc taacggaggt 240
 taccacaag gtctacttcg atgtcgagat tgacggcaag cccgcaggtc ggattgtcat 300
 ggggcttttt gggaaaga 318

<210> 28262
 <211> 380
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-025-Q1-K1-B5

<400> 28262
 cagtttgatg cgaccgcggg agcgtccgcc cgaccgccac cgcgccgcc tcagctcccc 60
 tcgcttcctt ctaatttcca gccagtagt agggagacta gaatcgtcgg cgcgacgcct 120
 tggcagattc gtccgccccg atcccaccac caccgtgcc cgcggtgac gtcggaccgg 180
 cggcgatggc aacgtcggcg gcggcgggat cgcgcaggaa ggcgccgagc cctccgaagc 240
 accgtcacga cggtagctcg ccgctgcctc tcggcatgga ctggagccct cccccgaaga 300
 gatgggaggg aaggaacacc atatggccac acaaccctca aacaggttgg agttactgtg 360
 tgatgatgcc ttcttggatc 380

<210> 28263
 <211> 461
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-025-Q1-K1-B6

<400> 28263
 cccacgcgtc cgcccacgcg tccgcacaca caattaggct acatacacac ttcccggtg 60
 cctccctagg tagcagcttc tacaatggag gcatccaaca agctcgcagt cttgctcctg 120
 tggctggtca tggcagctgc cactgccgtg cacccttctt actctgagaa ttcgcctcaa 180

gactacctca ctccccaaaa cagcgcccggt gccgcccgtcg gtggttgccc ggtgacctgg 240
 agcacgaagc tgcagcagtt cgcagagaag tacgccgcac agagggccgg cgactgccgt 300
 ctccagcact cgggcggggcc ctacggggag aacatcttct ggggggtccgc cggcttcgat 360
 tggaaagccg tggacgcaat gcgatcgtgg gtagacgaga aacagtggta caactacgcc 420
 accaacagct gggccgctcg caaggtgtgt ggccactaca c 461

<210> 28264
 <211> 404
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-023-Q1-K1-G5

<400> 28264
 cccacgcgtc cgaatttaag tagtagtaat tgtagtagca atctcttgta aactgcgctc 60
 gcctttgcgt gttcgtggtc cttttgcgct ttctcgtccc tctttctctc aatctctcct 120
 tattcttctc ctccacggc gaagccggcg gctggatgg atcccaatgg cctcaaaact 180
 ggaggccttt tgctcccgac catcgagagg cggtgacgt cgcctccatc cgtcattgtc 240
 atcggcgggtg gcatctcggg cgttgcagct gcccggtccc tctccaattc ttcatttaag 300
 gtgactgttt tggaatcgag agatcgtatt ggcgggcgca ttcatactga taactcgttt 360
 ggatgcccaa ttgatatggg agcctcatgg ctacacngcg tgtg 404

<210> 28265
 <211> 446
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-G6

<400> 28265
 ggcgcagaga atccccaagc aaacaaacag ggtagagga gaggagagga gaggagagga 60
 gaggttgggt ctgggacacc atggctccga tgaagctgta cggggcgggt atgtcgtgga 120
 acgtgacgag gtgcgcaacg gcgctggagg aggctggctc cgactacgag atcgtgccca 180
 tcaacttcgc caccgccgag cacaagagcc ccgagcacct cgtccgcaac ccgtttgggtc 240

aggttccagc tctgcaggat ggtgacttgt acctcttcga atcacgagca atctgcaagt 300
 acgctgctcg caaaaacaag ccagagctgt tgagggaagg aaacctcgag gaggcagcaa 360
 tggatgatgt ttggatcgag gtggaagcta accagtacac cgctgcactg aatcccatcc 420
 tcttccaggt cctcatcagt ccgatg 446

<210> 28266
 <211> 275
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-G7

<400> 28266

cggacgcgtg ggcggacgcg tgggcaagca gaaaacttta gttgacatgg cggtcgaccg 60
 cggatgctac atcgaccaaa gccagagcct caatgtccac atggagcaag caaactttgg 120
 gaagctgacg tctcttcaact tccatgcttg gtccaagggc ctgaaaactg gaatgtacta 180
 tctacgcaca cgagctgctg ctgatgcgat caagttcaca gtggatacca cgcttctgaa 240
 ggagaatggg aacgggggta gcgatggaaa gcccg 275

<210> 28267
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-G9

<400> 28267

aatgcccctc gttgaaccgc aagaaaggaa gtctcgctgg tatcagtctt aatagcaaaa 60
 tatatgctat tggatggggga gatggaaatg aaactttttc agaagttgag atgtttgatc 120
 cataccttgg gaaatgggta tgtgggtccat ctatgctgat ttctcgattt gctcttgctg 180
 tggctgaatt gaatggaaca atctacgcca ccggtgggta tgatggaagc atgtacttac 240
 aatcagcaga acggtatgac caaagggagg gtgtctgggt ccgtcttcca agcatgaaca 300
 caaagagggg atgtcatgcc cttactgtcc tgggagaaag cctatatgca atgggcggat 360
 acaatggaga caagatgggt tctagcggtg agatcttcga ccctcgg 407

<210> 28268

<211> 401
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-023-Q1-K1-H1

 <400> 28268

 cccacgcgtc cggtgggctt ctaccgcggt cttcgcaggc cacgcgctag ggtcccgtg 60
 gatgcgccgg cttctgcgta gccaccatcg aaggtccaac tacctccgca cataaacagt 120
 tgcgccacca cactcccaga atttctcccc cacagcagta ctaggtgcag agaaccctt 180
 tcttccactc gacgtccagc catggcgcac gtcacacaag tctacttcat gttcgagctc 240
 ctccatggac gcagggatct tccgcggttc agggagtttt atggccgaag gcttctgctg 300
 tgtcaccacg ggtcaaacag cgagggaaaa cgcagagaga gaggaaggag atggagccgg 360
 atgtcgctgc cgcgtncac acggagagat ccagaagaag a 401

<210> 28269
 <211> 253
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-023-Q1-K1-H10

 <400> 28269

 cagcgggttc ggccagtacc acggcaagta ctcgtttgac atgttcagcc acaagaaggc 60
 ggtgctcaag aggagcttcc tcgtcgagtt catgttccgc taccgccgtt gggacgagac 120
 caagatcgga atgttcaggc gcgtctaccg cttcgactac gtctcgctct tcttcgcgt 180
 catcggcctc aggagatgaa tcagacggca gatagtgcgt tgaacaattg agcctacata 240
 atctgtactt cac 253

<210> 28270
 <211> 405
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-023-Q1-K1-H11

 <400> 28270

 gggaaacctt gagccatggg cacagttgtg gatgccgctc cagcagttgt ggctgaggtc 60

atttagcaaa atctcaacct gcagtggagt tgcaagttgc acatagttat catcgcatag 180
 gcatgcatgg caggggtgtat ttcttggtga taaccgggga atgagaagac agcgatagtg 240
 aaatactcct agagttgatg accaccacct agtttttttc ttctttgggc tacatgtata 300
 attatgccgc ctgatacctt ttgggtttca gtgtatcata tataccagtg tacaggttcg 360
 gacctgaaca ttaatttgat tgatagtggg ctactgatct ttatgtttt 409

<210> 28273
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-H3

<400> 28273

cccacgcgtc cgcccacgcg tccgccgtca cccaatactt gcaagcaggg acttcttcag 60
 cgttggtgccg ccggcagaga aggacgacta cgatgatctg ttcaagggtc cctgtgttc 120
 cctgccaagc cctacaacta caagaagata gctgatctac ttcgtgccga ttgagctaac 180
 aaagggtgaag ggacggcaag tcaatgccac ggtctgcctc cctgatgaat ctgcgtccgt 240
 cttttgccgc atccgagacc aaaagggaga gtccctggta tatgggctcc actccatctc 300
 gtggcttcta tagctagtga aagtactacg ccggcgagct catgcgcagc atcgaccgcg 360
 ccgaccagcc gtcgggtgac atgtcgtcga gggcgatgac tagcgccatg gac 413

<210> 28274
 <211> 435
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-023-Q1-K1-H4

<400> 28274

ggaggagatc ctatactcct gatgatataa atgatcgccg aggtgcagac aatggtcgtg 60
 atgagaggaa gaggtcccca gcaggcgagg aggatgagga gcctcggcgc ggtcatcata 120
 ggtcaccccg tccagcgtcc atgtcacctc ctgggtcacg gtcaaggtcg gcgtcgcctg 180
 ctatcagcga ctgatgaatg tggcggcgat ggaactgttg gccccatgat tggggcggtt 240
 tgtcagactc ttgttatatc tgctgctagg ctctgttttg attttctcc gtggattgtt 300

tgtgtatgtg gggctaagtc cggtagttgg tttgctcgga atgaaatgag ttggtgggttc 360
 gtttgtcggg ggagactctg cttgtaacct ggtatggat cagtggcatt ntgtgcttgc 420
 tgtttaggat gatga 435

<210> 28275
 <211> 234
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-H5

<400> 28275

ctcaagaaaa agattgctgg aacggcggaa taagcgctag ctctcgtgga aagctttaga 60
 accaacgacg agagggggccg tttcttcttt gcaaattaag atatatatca accgaggaac 120
 gtaccaatgc agctactgtc gcccattgtg tgtgtgtgat gcatagcata ccttaccttc 180
 tgtatccata acgaaattta agaggagaga attttgcctt gccagccgtt tctc 234

<210> 28276
 <211> 380
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-H7

<400> 28276

aatcaattgc caattacaga acttccaagc tgaagaatat atgacctggg tgagtggat 60
 gcattgaaaa aaatttgtgt ttgcttaagt atgatttttg aatgatttat ctgttaggtc 120
 gagattgtgg tgcaagttaa tattagatag catgtttcaa tgggtggactg ttacggtttg 180
 agcattagta tcgattgcgg aagaatttct tctgacatg tttatatagc ccctcaacca 240
 atagacttta agcccccttt ccctattctt gtaccccagc tgccacatgg tgaatggccg 300
 cggttgcaca cctcaaaatc agtggctcga ttctttgtgc gaaggtttag aaccacagac 360
 agaaagcacg gatatttttg 380

<210> 28277
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-A10

<400> 28277

ctcaaaacca agcaacaccg tgccgacgca agactaccag agatgaagac cggcgctcgtg 60
gcactacagc tactcaccat caccatgttt ctctgtctgt cgtcggctgc agatagcacg 120
gcggccagga ttgggccaga ctacttcag gacacctgt cggcgaggat ttctccgggg 180
gcacggtgcc agcctcgcaa gtgcgccgcg gactgcacca ggcaattcag gggcggcgtg 240
ggcggtctgt accgctcggg gtgtacgtgc gtctacacct gccctgcggt cccgccactg 300
gcaaagaatg aatcgatcgc gtgacctga ctgtctcgat gcacaagtag tgacgtgacg 360
gacgggctag tagccgacct gtgacggatt tgcccgtctg atgaaaatcg tgaatgagtc 420
tgatg 425

<210> 28278

<211> 184

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-A11

<400> 28278

ggcaatcagt gccagtttat ctgttgctcc acagttacat atcccaccca tggttgaggt 60
ggagctgcaa agtccgttgg aattatcttg tagcagtttc tcggcaagat gagtcgcttc 120
attcactgta cgtcgggtgcc ggctactctg aaacttacat actataagaa tctggtcctt 180
tact 184

<210> 28279

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-A12

<400> 28279

cttgacgaat cgcttgaaaa aaatataaat gtcgtgcaaa tcacaggcaa caaaagaagc 60
tgggcgaagc cagcaacacg catgcactgc gacgtgcagc agttctaagt ttaaaccctt 120
gaagtcgcct gatgttgtgt catgtcatgg taggcctacc gattgatgaa ttctcaagga 180

agactatgga tgccattgca gaagagctga cttatgagaa gacgcttgct tactcatgca 240
 tgcagtaaatt tctaccacat gcagagagca c 271

<210> 28280
 <211> 335
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-G4

<400> 28280

cgagcggcca gactttatga gaggttgagg gggggacacc atggctgcga tgaatctgta 60
 cggttcagtg atgtcttgga acgtgactag gtgctcaaca gcgctggacg aggctgaatt 120
 cgactacaat atcgtgcaca taacttcgca ccatcacaca agaccacgac acatcgatgg 180
 aacttgttta gtcaggttcc agctgtacag gatattgaat tgtacctgtt ccaatcaata 240
 gcaatctgca agtacgctgg ttgcacaaac aagccagagc tgattaggga aggaaatctc 300
 gaagaggcat taatgggttga tgtttggatc gatgt 335

<210> 28281
 <211> 291
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-F1

<400> 28281

cccacgcgtc cgcccacgcg tccgcccacg cgctccgcca cgcgctccgcc cacgcgtccg 60
 cccacgcgtc cgcccacgcg tccgcccacg cgctccgcca cgcgctccggg atccacgaaa 120
 ttgtcgctaa tggctaaaaa caatggtagt atcttttttt tactcctttt cttttggctt 180
 tcatgctacg ggaagtttga ggggattcaa ttaattagag tatatgtaag tttgggtttcc 240
 agtcgaatct atcattcggt gcaccatcat tcttccttga cacagtacac c 291

<210> 28282
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-F10

<400> 28282

gatgggtccc acctcccttg tcgtccaaca gaagccctga acgtgaaaag gaatctacat 60
ttgctgctgg tagaagcagg cgtgttgaag tggagcgtac attgactgac tcacagcgtg 120
atgaatttga ggacatgctg cgagctttga cattagagag gagccaaata aaagacgcca 180
tggtgatttg cttggataat gctgatgcag ctggcgagat tgttgagggt cttacagaat 240
ccttgacact caaggagacg tctattccaa caaagggttg tcggcttatg ctagtgtctg 300
acatccttca taacagtagc gtcctgtga agaacgcac tgcattccga acgaagtttg 360
aagcttcttt gccagatgtt atggagagct ttaatgactt gtatcgagc atca 414

<210> 28283

<211> 403

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-023-Q1-K1-F11

<400> 28283

cccacgcgtc cgcgatccgc cgagtgcaca ccacctttcc ccactccgat cgaatcgatg 60
gccgccgagg gcgagaagaa gatgataacc ctcaaaagct ccgatggcga ggagttcgag 120
gtggaagagg cgggtggcgat ggagtcgcag accatccgcc acatgatcga ggatgactgc 180
gccgacaacg gcatccctct tcctaacgtt aactccaaga tcctatccaa ggtaatcgag 240
tactgcaaca agcacgtaca tgccgncgnc gncgncgncg ncgntcgaag ggccggttcc 300
gacgacgtgg gtgccgnctt cgncaacagc accgncgnct tcggtgagga cctcaagaac 360
tggtgatgcg acttcgtcaa ggtagaccag gccacgcttt tcg 403

<210> 28284

<211> 301

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-F12

<400> 28284

cggagaaggc gtacaagatc ctgcgccgact tcgtcttcga caactacgac aagctcatcc 60

tcgtctagct taccattatt ttcatttcat gagatggatt tgatctgctg gattatgcat 120
taattgtttg ctgctgtatt tacatttgct tgtctgatta attgtttgct agctaattctt 180
ccggcctcta catctctcta tctatctata tttacgtgca tttattacga ctctattaat 240
tgaattattg tacgtccgtg tcataaatta attaattaat actataataa tagttgtatc 300
t 301

<210> 28285
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-F2

<400> 28285

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tgtatcgaaa caccagccgt ctttgggtatt tccctgctg acagaccttg tatcatctat 180
acatgtgttt tagccagtgg ctgtattgta caactttatg ttgtgtccgt ctccataaaa 240
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaggacaa aaaatataaa 300
agatccaaac ataacttaca catacattca acggcataac tcttttatag agccacctaa 360
at 362

<210> 28286
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-F5

<400> 28286

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cctcgatcgg gtggggcgcg accacctgat gcgggatgaa cgacctgtgg gtgaagcact 120
gctgcatgtc ccacacggag tegtccaagg acctcggcat gaccgtgctg ccgagccagg 180
tgaacccgct ccgtcgcgcg ccgtgtgcgc gcccacgtc cggcgtcggg tgctcgtaca 240
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336

<210> 28287
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-F6

<400> 28287

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gctacaggcc cttgaggcag acagggagta cataaaacag tgcgtgaggg ccttgaaaag 180
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gatcgagcag cgcggaagga actctgggga gctttcgçct cattacctac atctttacac 300
ggactgaaga tcagctgcaa agtctcgtgc ccaatattgc ttgaagatgg aaaccataag 360
acaatgataa tgggggggggg gggggaggat tgtcgactaa taactagcat tggcattgga 420
g 421

<210> 28288
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-F7

<400> 28288

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tcgacgggtg ggcactacac ctcaactgcat gaacgacctg acagtgaagc actgctgcat 120
gtgccacacg gagtctttca atgaccttcc taatgaccgc ctgttgaccc agaccaactc 180
tgctgcgtca cgcgccaata gtcgctcccc atcgccggcg tctgatactc gtccacggga 240
tacacctctg ccgcaactctc tccctactgc gacgccgagg acatccatga catcgatttt 300
cttctgaca accgcatcta gctcgagcag gtcattcatc 340

<210> 28289
<211> 432
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-F8

<400> 28289

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acaccctgta cgacccctac cgtgaggggtg ctgactttgt gcgtggatac cccttcagcc 180

tcagggaggg tgcccacact gctgtctccc acggcctgtg gctgaacatc cctgactatg 240

atgcacccac ccagctggtc aagcctaagg agaggaacga aaggtacgtt gatgctgtca 300

tgacaatccc caagggaacc ttgttcccca tgtgcgccat gaaccttgcc ttcgacaggg 360

atctcattgg ccctgccatg tacttcggtc tcatgggtga tggccagccc attggtcgct 420

acgacgacat gt 432

<210> 28290

<211> 54

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-F9

<400> 28290

cccacgcgtc cgccccacgcg tccgccccacg cgtccgacta gttctagatc gcga 54

<210> 28291

<211> 392

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-023-Q1-K1-G1

<400> 28291

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ctcacctcgc cggcaaaacc tatgtgtctg gtgactccat tactaaggat gacattaagg 120

tcttcgccgc ggtgccgtcg aagcctggcg ctgagtttcc taatgccgcc cgctggtacg 180

agaccgtctc tgcggctgta gcctcaagat tccctggtaa ggctgttggt gtaaatctgc 240

ctgcgggatc agctcctgcg gcagctgctc ctgcggatga ggctgaggac gatgatgacc 300

<210> 28294
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-G2

<400> 28294

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aaagtacttc aagcgcgag taagggttga ctggccagag ggagcggcct cactgagagag 180
catgaaggca gtctggaaat tgcctcgtct gcagaacctt gtgatgcaac atgttgatca 240
ttctgctgga gatctaattg atcttcttca aggacttctt cggatgacg ctaatgagcg 300
cctgaaagca catgaagctc tacaacaccc tttctttacc agatgcatca gaagatgtgg 360
tttctgaggc tacactgaga ttgaaaatgt caatgctgca tatcttcatt ttgatgtgta 420
agaactacaa aaaaagtgag at 442

<210> 28295
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-E9

<400> 28295

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ggtgatcgtt cacctgtacc cgttcctcaa gggctcatg ggtcggcaga accgcacccc 180
gaccatcgtg gttgtctggg cgatcctgct ggcgtcgatc ttctccttgc tgtgggttcg 240
catcgatccg ttcaccaccc gcgtcactgg cccggatact cgaacgtgtg gcatcaactg 300
ctagggaggt ggaagggttg tagaaacaga gagataccac gaatgtgccg ctgccacaaa 360
ttgtctgtta gtaagttata ggcaggtggc gttatttaca gctacgtac 409

<210> 28296
<211> 113
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-G3

<400> 28296

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg 60

gaaggaaaaa taataaatga aagaaaaaaa taaacatggg tgtccacttt cgg 113

<210> 28297

<211> 329

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-023-Q1-K1-D3

<400> 28297

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accatggcga tctcctccac ggcgatggcc ggcacccccca tcaaggtggg ctcttcgggc 120

gagggccgca tcaccatgcg caagaccgtg ggcaagccca aggtggcggc gtccggcagc 180

ccctggtacg gccccgaccg cgtcaagtac ctcggccctt tctccggcga gccccgagc 240

tacctcaccg gcgagttccc cggcgactac ggctgggaca ccgncgggct gtccgncgac 300

cccgagacct tcgccaagaa ccgcgagct 329

<210> 28298

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-D4

<400> 28298

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cttcatggat atgtgacaat ggttcggggt acaggtgctc gacctcgggg agaacctgct 120

ctccggcgtg ctccacccga cgctgttcgg taacctcacc agccttttga agtgtaagat 180

ttgttattct ttagttatat aatttctagt agagacaact taagtattac aactatgtgt 240

tagggagggt tcaggaaaaa gaatgaattt tgtattcagc atatgtgcat aatagggctt 300

cgatttctcaa gtcctgtaat actggaagta tgcataagtg cataacagag tttattaaag 360

aaagaaaagt cctcacttgc tggcagttta tccattgtat ttttgtaaataaaggttatt 420
aaagaatgaa a 431

<210> 28299
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-D5

<400> 28299

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ttcaggtcca gcacctttca agcccccatc tggtaggaagc accagtgatg ttgttgaagc 120
ctctggtacc gctaaaccca gcgaaaatgt tactgcgatg gaggggaatg ccgctcccaa 180
tgtaaatagc actatttcaa ggcctatgcc acagcggcct tggcagcaga caggttatgg 240
aaacacctat ggaggggatg gtggatccaa catgtatagt tcatatggtg gatttggcaa 300
cacttatggt accggtggac tcgaaaatag catgtactcg agttacggaa gaagttatgg 360
tggtggcatg tacggtggtg gcatgtat 388

<210> 28300
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-D6

<400> 28300

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ccagcgttgg cgagagctgt tgtctatggt ggccttcggc ttggactgta tgagccctgc 120
aagcatgtct gcagttatgc atttggttca acaaactttg cttttaaatt tgcactctgga 180
gtcattgctg ggggccttgc aactgcttta acaaatccca tggaagtttt gaaggtgagg 240
ctgcagatga gtaaaagcag taccagtaca ataagagaga tgagaaaagt tatagcgcac 300
gaagggttta aagcactttg gaaaggagtc ggcccagcaa tgacaagagc aggttgcctt 360
actgcatcac aaatggcgac ttacgatgag gccaaacagg ccttaatgaa gtggacacca 420
c 421

<210> 28301
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-023-Q1-K1-D7

 <400> 28301

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 ggtggatcgc tgcgcagagc gtgttctatc acttatataa ccaggtgtcc tacatgtctc 120
 tcgatcagat ctctccattg acgttttagca ttggcaatac aatgaaacgt atatcagtga 180
 ttgtttcatc tataattatc ttccacacgc ctgtccgccc tgtcaatgca ctgggagctg 240
 ccattgccat ccttggcaca ttctgtact ctcaggcaaa ggctgagggc taaagctttg 300
 gcctaaggat cggagccagt agcaggcact ggatccagtt ttgcttggtg gagtggcatg 360
 tatatataag gttcggtttt cgtgagagag agggg 395

<210> 28302
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-023-Q1-K1-D8

 <400> 28302

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 tgtaattgat ttgtctagt taccaccaga gcttgccctt atggcaaata atgctgatct 120
 ggtggtgctc gaaggcatgg gaagagcaat tgaaactaac ctatatgcgc agatgaaatg 180
 tgactcgatc aagattggaa tggttaagca tcctgaggtc gcccaatttt taggaggaag 240
 actttatgat tgcgtcttca agttcaatga ggctgaact acgagataca tttgataaca 300
 caataccggc cgcactagt gtggcttagt tctccccaag atcagcttgt taggtgttgc 360
 actgaacata attttgtag tatcagcaat aatttcaatc aaaataagct acgtatatgt 420
 ggtg 424

<210> 28303
 <211> 446
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-E1

<400> 28303

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gggcgcatac gccttcgtga gggacatgcc tgtgctgggc gctgtccaca tcatgcgtgc 120

agggtggagga cgagcggacg ctggcgatca gtggtttagcg gcgccaggag gagcgcgagg 180

actccaagta cctgctcatg gagcggcagc tgcgcaagtt catgcgcaag ttcgtgctgc 240

cggacaactc cgacatggac aagatctctg cgggtgtgcat ggacagcgtg ctcaccgtga 300

ccgtcgagaa gctgcccccg cccgagccca agaaacccaa gaccatcgaa gtcaaggctcg 360

cctgatgtgg gactaggtct accgatcgtg gctctgaaga tgtgggagca gtgccagcga 420

gttgtgagga cctttacctg tgtgga 446

<210> 28304

<211> 194

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-E10

<400> 28304

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ggttgactag tcaccaatcg caacacaggc tgtcaaacia tagtctgtgt ccttaatctt 120

gttttagctg ttatgttagt gtgtgcaact aaaactgggt aattaatgat atcgttttgg 180

tcgaccgttt gtgt 194

<210> 28305

<211> 94

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-E11

<400> 28305

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ggtacacatt gattactcaa caaacatac tatic 94

<210> 28306
 <211> 409
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-023-Q1-K1-E12

 <400> 28306

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 ttctgtgaggg tctgcactac aatccctact tccctgggtg tgccatagcc atgccgaaga 120
 tgcttaatga tggagctggt gagtatgagg atggtacacc tgcaactgaa gccagatgg 180
 gtaaggatgt cgtatcattc ctttctgtggg cagctgagcc tgagatggaa gagagaaagc 240
 tgatgggagt gaaatggatc tttctactat cactagcgct tctccaagct gcctactacc 300
 gccgcatgag gtggtcagtc ctgaagtccc gaaagctggc cctggatgtc gtcaactgag 360
 gactatcatt accctttttt tattgaaata tgttgagccg ttaaggagc 409

<210> 28307
 <211> 368
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-023-Q1-K1-E2

 <400> 28307

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 tgatgtttgt caaggtggct gctggcaagg ttagccgagg aagtggagtt caataacagg 120
 atgcggaaac tgtgccgctc cttgccgaac ttaagccccg ttacgttgct gcacaaagtt 180
 tatttcttag cactgtgctt gctgcttatg tttgtttgga tgtgccaacc tgcagtgacc 240
 ctctgggagc ctgggtctca cgctcctctt acctagtgtg atgtgcagaa aaagtgtgat 300
 gctgtaaaat tatgtgattg cctagcagat gtcaaatttt caatcagtag ctaactcctt 360
 ttaatggt 368

<210> 28308
 <211> 217
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-E3

<400> 28308

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gtttgggtggg gagttcacca tgctgtttta ccatccgttt acattgtcca aacaaaaata 180
ttatcattgc tacatcagct gctttttctca ttgggttt 217

<210> 28309

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-E4

<400> 28309

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aggtggcaaa actcaaggac cagaatgagg agttgcagaa aaagcagggt gaaatgctaa 120
agaagcaaaa ggatgaggtc ctggagcgaa tcaacagcca acatggacca aaggcaaaga 180
agctttgcct gcgccgcacc ctgactggcc catggtagcc tgctgaagct tgcacaaaat 240
tgaccgaagt caagatcgctc gggccagatg tgcccgtgtg tatatatcag atgaagtcaa 300
gagtactgag taccocgtta cccctgtaga ccgccgtac ttcagagctg ccgttcttgt 360
tctgtgacgt gggtagtctg cgcccgacag ttcgctgttt aggttcgggt gcgcgatcct 420
tacatg 426

<210> 28310

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-E5

<400> 28310

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tgctgcgtac agtacgtagt accatggcga agaaagtggc cactctgctg gccctcaacc 120
tcctcttctt cgccctcgcc gacgcagtcg gctgcagggt cgccggatcc tgccctagtc 180

caggcggcgg tggcgggtggc ggtggaggat ctggtggtgg tgggtggtgga agcgggtgggg 240
 gtgggagtgg aggggggtgga tcgggtggtg gcagtggagg cggaggatct ggtggaggcg 300
 gcagcagcgg tggaggcggc ggatctggtg gcggtggaag cgggtggcagc cgcggatctg 360
 gcggcggacc gactagc 377

<210> 28311
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-E6

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 aaaataatat aattaaaatt aaaagacgca atagaagatg aaagagcgaa aagataactg 180
 aaataataca gacagaaaat ggctgtagct tttgaagatc tgattgtagt ggcggtggaa 240
 gctaagaagg tgggagctga aaggaatgca ctaattgaga gcttggtggtc ttattacaat 300
 aaatgtgtag gcggtgtaga ataccagttg catagtatct tgcgcaattt taataaaaga 360
 cggattccat tggatggtga taatggaaaa 390

<210> 28312
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-E8

<400> 28312
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 ggcttaattc tccgcaacac ttttagggca caaaagaacg ctgaagatga aagctgcgtg 120
 atagccctcg gcaaccttcg gtcagaagtt atcaagctga gaaatgaagc cttggagaag 180
 gacaaaattc tactttcatt ggtggataga gtgaaagaag atgaatcaaa gttgaacact 240
 caatccgaaa cttataaagc cgaaattgaa gaccttcaga aaaaacttgc tgaagctaata 300
 gagaactttg cacttgcaaa agctagccaa gaaattagtg aatggtcgaa aactagacta 360

gagaaaaatg ttgaagagct tcgtgaat

388

<210> 28313
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-D2

<400> 28313

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tggcacggct acggggcgag tccttcgctt atacaggagc tcgacctggg cgagaacctg 120
ctctccggcg tgcttcaccc gacgcttttc ggtaacctaa ccaagctttt gaagctgtag 180
attcgatgat ctctagtgat ctcgctctta gtataaccaa ctctatcctt gcacctatgt 240
gttaggtacg gatcagtaaa aacagttgct gttcaattcg acatatgtgc ataatt 296

<210> 28314
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-B9

<400> 28314

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taccgagttt gaagagacca atgcactgct acgagctgtc ttgaaacttc agaaagattg 120
aggtagggat gcataccaag tctgaggatg atgcctttgc ttaaggtttt tctaccttgc 180
tagaacatat ctgtggttag aactttgtca gaactacgtg caatctgttt gaatgcttca 240
aacctttgtg gtggaacctt tgtatgtttg aacctctgtt gtggaagaac tagtgtgctg 300
gaattgtgta tgacttgtga tgagaatggt gtgtatgatg gcttttctgt gtatt 355

<210> 28315
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-C1

<400> 28315

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagaaaa 180
 atgagggaaa aaaggacaaa gtataaaaaa tacatataaa agaaataaaa agaaaaaaaa 240
 ttaaaaaaaaa aaaaaaaaaat agaataaaaag aaaagttaaa aaaatttata tgaagt 296

<210> 28316
 <211> 349
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-C10

<400> 28316

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 tatgaagggt ggtgagggtt caaaaattac atgcaaatca gaatatgcat atggagctgc 180
 aggctcacca ccagagatac ctctaatgc aacccttatt tttgagggtg agctagtagc 240
 ttgcaggccg aggaaagggt caagcttagg cagtgtatct gatgagaaag ccagacttga 300
 agaacttaag aagcaacggg agctagctgc tgctaccaa gaagaggag 349

<210> 28317
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-C11

<400> 28317

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 aagcagctgg catggcatgc gtagtacgta gccagcagca tctagcacta gcagtccatc 120
 ggagcgacga tggtgagaag gacggtgctg gcggcgctgc tgggtggccgc cgccctcgcc 180
 ggcggcgcg cggcgagct caaggagggg ttctacgact actcctgccc acaggcggag 240
 aagatcgtca aggactacgt gaaggcgac atccccgacg cgcccgacgt cgccttcacc 300
 ctgctccgca cccacttcca cgactgcttc gtcaggggct gcgacgcgtc agtgctgctc 360

aacgcgacgg gcggcagcga ggcgaggagaag gacgcggcgc ccaacctgac gctgcgcggc 420
 ttc 423

<210> 28318
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-C12

<400> 28318

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 aagcatcagg ccgccttctt tccatttggg tgggggtccca ggatctgcat aggccagaac 120
 ttgcggttgc tggaagcaaa gatggcactg agtaccatcc tccaacgctt ctcttttgag 180
 ctctcatcat cctacactca tgcgccatac accgtgataa ctttgcaccc tcagcatggt 240
 gctcaaatca ggttgaagaa gctttgacca tgatgggtcat actgaatgcc aaaacatgca 300
 ctctagtaa catattgtga ttgttcatgt atgcagggtt aaatttagct ttgatatgaa 360
 taatgagaac caagtgtgta tgaatggagt aagggtgtaa tcggat 406

<210> 28319
 <211> 240
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-C2

<400> 28319

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 aaaaaaaaaa aaaaaagaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaata 120
 taaaaaaaaa aaaaattaaa taaaaaaaaa tataaatata taaattttat ataaaattaa 180
 ttaaattgaa ttaaatgtaa aaaaattttat aattttttaa atggtaaaaa tttaaattatt 240

<210> 28320
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-C3

<400> 28320

cccacgcgtc cgccacgcg tccggttccc cctaaacctg ccttgggacc taacagctac 60

actcctgaag ctaccaaggg cgctcgccc aatggcacc aagtcaatgt cttgcagcct 120

tctgcaagtt tttcgccgaa gctgcgttgc aacagaaacg tcctcgtcgc cgctgctctg 180

ctgttcctcg tgatcctttg atcacctcaa ctecccatga caatcttttc agaaaccaa 240

tcgacagata tgatagattt tagttaaact tggtttacgt tgtatgtatt gagttacgta 300

tagtgtgata gtatcacatt cttttggcct gtgtccacag ttccagtagg agttaggata 360

gaacacggga tgagtccata gccctttttt tttgcacgtt cataatgtac ctggtggatg 420

t 421

<210> 28321

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-C4

<400> 28321

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gctgtttgta tcctgacagc caatggcact gtatctaatt tgaccctgcg tcaaggagag 120

tcttctggtg gaacagtaac ttatgagggc cgttttgaga ttctctcttt ggctgggtca 180

tatcttctgt ctgaaagtac tggcatgagc agtcgaacgg gtggacttag tgtttctctt 240

gctagtcctg atgggcatgt tttaggtggt gctgtcgcag gacctctaac tgcagcttcg 300

ccagttcagg tggtcattgg gagctttctg gctgatacaa aatggagct tgaccctgga 360

tcagcacctg agaaacatgt tttcagcagg tttcaaacta ccagcagtcc atctaggggt 420

accg 424

<210> 28322

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-C5

<400> 28322

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 gacgtcgccg gctcgcgcgt cgggttcgcg agggagccct gcaactgagc ccctgaatcc 120
 gtccgtgccc tatgcacggg aggaaggagg agacgcgctg cggctgccgc atcggtcggt 180
 gtgcagttag ttgtcctggt agtctatgct acgttgtctg cactctgcaa taacggacgt 240
 gacccgggga .aaaaaactgt ttcgtcacgg gtagctagag aatcacgtaa ggctcttggt 300
 ttcgtttgtg tcctataatg tatggctatt ggctgtttc gagagggttaa aatttgagg 360
 tgctgcac 369

<210> 28323
 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-C6

<400> 28323

cccacgcgtc cgccacgcg tccggccaac cttcagcagc agaacgtgcg ggctcgtggg 60
 gacgtcgccg gctcgcgcgt cgggttcgcg agggagccct gcaactgagc ccctgaatcc 120
 gtccgtgccc tatgcacggg aggaaggagg agacgcgctg cggctgccgc atcggtcggt 180
 gtgcagttag ttgtcctggt agtctatgct acgttgtctg cactctgcaa taacggacgt 240
 gacccgggga aaaaaactgt ttcgtcacgg gtagctagag aatcacgtaa ggctcttggt 300
 ttcgtttgtg tcctataatg tatggctatt ggctgtttc gagagggttaa aatttgagg 360
 tgctgcac 369

<210> 28324
 <211> 223
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-C7

<400> 28324

gatgttccaa gatgtactca gacaacagtg aacctacagg atctccagaa catcgtggg 60
 gcatctaagg agctgggcaa agtacttgcc aacttatcgt gacctgaca acttaatctc 120
 gctagtgcac tactcatatc tgctcctcct acaaatcctt actctaccct atctttcaca 180

ttaacgctaa tcattcttgat ggtctatact tcatcgttta cta

223

<210> 28325
<211> 312
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-C8

<400> 28325

cccacgcgtc cgtgcacagc cagggagagc aagagaagaa ggaagacacg tcagacaaaa 60
cagaagacga taagaactga tatagccatg ttcacgcttc catgcgtaca aagaaattga 120
agaccggtct ccattgactg cgtttactct cttggtcgtg gagtttgttt atcctcatat 180
aacggtgctt tgattataac ttaccgccga gggaatttgt attatgacac tgcaacaatc 240
ttctctccat atatgttcaa gggattttcg tgtttcaatg ctctccatat atgttcaatt 300
gatttcctgt tt 312

<210> 28326
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-C9

<400> 28326

gaagaaaacc cctgctgcaa agaaggataa tgctgagga caagaggttg aggcagcagc 60
tgaggaaacg aaaaagagca accatgtcac gaggaagctt gagaagcgca aggagggacg 120
tacccttgac ccacacattg aggagcaatt tggcagtga cggttgctgg catgcatttc 180
ttcccgcctt ggacagtgtg gccgtgctga tgggtacatc cttgagggtg aagagcttga 240
gttctacatg aagaagctac agaggaagaa gggcaagagc gctgtagctt agagcattct 300
catggattgt cttgcaccga aatgtgtgtc ctgatgagta cacttttttt ggtagtcgt 360
ctcaagttca gagcgttatg ccatgttttc agacctgatt agtacactct tttcta 416

<210> 28327
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-D1

<400> 28327

cccacgcgtc cgcccacgcg tccggcctgg gccaccagca acgagtcgct ggagaatgcc 60
ttcgctcctt acggcgagat cctcgactcc aagggtcatca ccgaccggga gacggggagg 120
tctcggggct tcggcttcgt taccttctcc tccgagaact ccatgctcga cgctatcgag 180
aacatgaacg gcaaggagct cgacggccgt aacatcacgg ttaaccaggc ccagtcccg 240
ggcgggtggcg gtggcgggcg tggctacggc ggcggtcgcg gcggcgggcg ctatggtggc 300
gggcgccgtg acggcggtta tggcgggcgt ggcggctacg gcggtcggcg cgagggtggt 360
ggcgggcggt a 371

<210> 28328

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-D10

<400> 28328

ggaactagtt aatctataga cttatatatc gtaatgtgtt caactgggtg agccacagat 60
ttagcactgt tgtaaatcgg aaatagtgag tgatatgac gtcggaagca tagcacgcaa 120
aaacaagaaa tgggacatgg ggtacatcct tgagtggatg aatttatgct gtcatataga 180
gcgcgaagtc tgcttcctgc gagacaaaaa gctatatgac gttcatacaa gatggtgatg 240
caggatataa cataagatca ttgcttggtc agagaacagc gacatgtata aaaaatctat 300
gatggtatta ctgcttagat gtatatttga gactgataag ggcgatgtat tcttggagat 360
aattgaatat ttattagaaa aggggatgcc gctctaaa 398

<210> 28329

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-D11

<400> 28329

cccacgcgtc cgaggaaatg acaattatcc actttcaaca ggagctgcaa ataatttatt 60

gttgggtatt gagcaaggag ctggaagcag caatggtcag tctgcctttc ccaagtttga 120
 caatgggagc tcagtggcat taccatctgg gcagggaatg tctggcttta tgggaaaagg 180
 ggcaaaatgg cgtgacgggg actggttgtg caacaactgc aacaatcaca actatgcatc 240
 tcgtgcgttt tgcaacaggt gcaaaactca gaaagaatct gcagttcacc ctggtgtgtt 300
 atagcttgct gttggattat tttgttccag gatatgttgc tgctgttct agctccttcc 360
 tcaaggctgc ggtttgagtt ttttcgattc tgcagtgttt ttgctgctct 410

<210> 28330
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-B8

<400> 28330

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 cccatggccc tacaccgacg cagagctcgc ccatgccacc gtgcacgtgc cccggcggcg 120
 tcgcgatgcc cgtgtatccc cgccgtcgcg cgcttacgtc agcatgtacc tggagcagaa 180
 gcgatttcga cagcattgcc gaggagctca ccgctgtgaa agtgtgttag tcccgctccc 240
 tccaggtcct gactctacaa ttcacttgtg tattcccccg aagcattacg agacagtctg 300
 cacggctcct atcaagcaat gaagacaaca tcatggtttg ctttttcagg agcttgaagt 360
 atggtgatag aaagactact gctcagtatt taaagtgtgg atgtataggt gaaaaa 416

<210> 28331
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-D12

<400> 28331

gccactcgtc agacgaaatg acaatcatcc actttcaaca cgagctgcat ataatggatg 60
 ggtgagtatt gagcatggag ctggaagcag cattggacaa tatgcctttg ccaagttcag 120
 acaatgggag ctcaccgaca tataccatgt gtgcaaaca tgtctagtct tatgggaata 180
 ggggcaacac gctgtgactg gtaatgcgtg tgcaactact gtagcgagga acgctgtgca 240

tatcttgcatt attgcaacat gggccgaact gataaagaat ttgatgttga cgctgtagtg 300
 ttatagattg ctgatagact attcagttgc aagatatgtt actgactgtt ctagctcctt 360
 cctcaaggct gcggtttgag ttctttcgat tctgcattgt atatgct 407

<210> 28332
 <211> 406
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-022-Q1-K1-H9

<400> 28332

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 tccaaggaca ccaggactga gaggggtggaa tcttatgctg caaagccaag cacgaagaaa 120
 tgggtttgtt gtgtgacagc cagccctacg caatcctgag gaagacaact gcatgcgctt 180
 tggaataact gtccctttaa ttttctatac atactatcca taagacaatg tanggtacc 240
 caggcctctc cgggctccag gatgggctat ctcgtaaaac tcttgcgtgc gtgtatgtat 300
 ggtgtgagag aattcgcaaa gtggacttct ggttgtaatt cttagtcgtc tctctctctc 360
 tctctttggg ttggtcacgg ttctatgatc cagcaatcca ctgaac 406

<210> 28333
 <211> 374
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-A1

<400> 28333

gtccacgcgt cgggggttgc cagctttaac atcattccga gcagcagcgg ggctgccaag 60
 gctgttggga aagttctccc tgatctgaat ggcaagctca ctggtatgtc cttccgcgtt 120
 cctactgtgg atgtctcggg tgttgacctc accgtcagaa tcgagaaggg ggctcctat 180
 gaggatatca agaaagctat taaggctgct tccgagggtc cactcaaggg tatcatgggt 240
 tatgtggagg aggatctggg ttctaccgac ttccttgggt acagcaggtc gagcatcttt 300
 gacgccaag cgggatcgc tctgaacgac cacttcgtca agcttgtctc gtggtacgac 360
 aaccagtggg gcta 374

<210> 28334
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-A10

<400> 28334

eggacgcgtg gggttgcgca tttaggaatt aggattagat gattagtga ttactcactc 60
 agacaagcat cttctgcaac aggcaatttt tctgtttcat aatcaactgg gtctgaaatg 120
 tctcatatca actaatggcc gtgagaatgt tatttaggct tatataagtt atacagaaga 180
 tatttcgtta tgataatgca caaaagttat ggtgtgcaat gaaaggtata tttgagagta 240
 atagaaatag actcattgtg ctgcatcctt aactgtaagt ttcttgtgtg cgactcatcg 300
 taatcgcagg tgtttctgtt ttccaatttg cagggtgcaa atgtgttttc caccctggat 360
 aggtactgta tttcacttat tttcgtttgt tccctgaact gg 402

<210> 28335
 <211> 241
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-A11

<400> 28335

cccggtcgac ccacaccacg cgtcgcgcca cgcgtccgct tacgcattcg ataactcgta 60
 cgacatcatt tgcgcatacc agtcggggac aaacctctcg tctgctgcca tgtacaacac 120
 cttcatcata aattggaatt gattagacaa atatcaatta tggcatgggc gaatgcgtct 180
 tactcttata tatcatatac acacaatctt cagccatgct agtggacaca tattctagtg 240
 t 241

<210> 28336
 <211> 287
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-A12

<400> 28336

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agaggaagat tgagaaggcg gacacatctg ccaagaaaag caagaaaaag aagaccaaaa 120
ccgagactga tggatgatgca atggatgtgg ataagccctc caacgtggct gatggagaag 180
ctgagcttgg aaccgagaag aagaaaaaga aaaagaagca caagctagag gaggcacagg 240
agaacggtgc agcacatgct aatggcgctg aagagacca gactccc 287

<210> 28337
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-A2

<400> 28337

cccacgcgtc cggcagctcc acccttcact cagtcttagg ctcttagctc taggctctag 60
ctagccgcgc cactccttcg tgtagccatc agccttctca tcgccaccaa tggccactgc 120
cgaggteccag accccgaccg tcgtggcggc cgaggaagcg cccgtggtgg agaccccgcc 180
gccggccgctc gtgcccagagg agtctgcccc cgccgaggcc gaggtgagg ctgaggctga 240
ggctgctgct cctgctgctc ccgaggagct tccggcggcc gagcagcagg cagccgccga 300
gccggaggcc gctgctcctg ctggtgccga ggagcccgcc gcggccgaac c 351

<210> 28338
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-A3

<400> 28338

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gggctgccag cttaaacatc attccgagca gcaccggtgc tgccaaggct gttggtaaag 120
ttctccctga tctgaatggc aagctcactg gtatgtcctt ccgcgttcct actgtggatg 180
tctcggttgt tgacctcacc gtcagaatcg agaagggggc ctcttatgag gatataaga 240
aagctattaa ggctgcttcc gaggggtccac tcaagggat catgggttat gtggaggagg 300
atctggtttc taccgaattc cttggtgaca gcaggctcag catcttcgac gccaaaggccg 360

ggatcgctct gaacgaccac ttcgtcaagc ttgtctcgtg gtacgacaac gagtggggct 420
acagcaaccg cgtcgtc 437

<210> 28339
<211> 407
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-023-Q1-K1-A4

<400> 28339

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gtacgtgagc ccggccgaga gcgagggaga ggcattggctg ctccgaagct cgcgacgctg 120
gcgctggccg tgctcctggc ggcgaccgag gtggctcccc cggccgaggc gcgagcgaggc 180
atgtcgtgct ccaccgtgta cagcacgctg atgccgtgcc tgccgttcgt ccagatgggc 240
ggggccatgc cggcccgacc gtgctgaggc ggcattccga gcctgctgca gcaggccaac 300
aacacccccg accgcccac catctgaggc tgcctcaaga acgtcgcca cggcgccaac 360
gggagcggca cctacatcag ccgcccgcgc gcgctgcca gcaagtg 407

<210> 28340
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-A5

<400> 28340

cccacgcgtc cggccaccgc tgctgccttc tttaacatca ttccgagcag caccggggct 60
gccaaagctg ttggtaaagg tctccctgat ctgaatggca agctcactgg tatgtccttc 120
cgcgttccta ctgtggatgt ctcggttggt gacctaccg tcagaatcga caagggggcc 180
tcctatgagg atatcaagaa agctattaag gctgcttccg agggccact caaaggatc 240
atgggttatg tggaggaaga tctgggttct accgacttcc ttggtgacag caggctgagc 300
atcttcgacg ccaatgccgg gatcgctctg aacgaccact ttgtcaagct tgtctcgtgg 360
t 361

<210> 28341
 <211> 296
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-023-Q1-K1-A7

 <400> 28341

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 taaaaaactg gggggaaaga tctacctgat ctaaattggca agctcactga tatgtacttc 120
 caagttccta ctgtaaatat ataaaaataa taacctcacc atcataatca aaaacggagc 180
 ctactatgag gatatacaaaa aaactatttaa agctgcttcc taagatccac tcaagggtat 240
 catgggttat gttgaagaag atctggttta taccgacttc cttggtaaca acatgt 296

<210> 28342
 <211> 273
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-023-Q1-K1-A9

 <400> 28342

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 caataaccgg cagcagcaat ccgataccaa tcacagatat acagtaagcc acatctacta 120
 gctcgcgggt aggcattgcac agggcgcggt cgctcgtgctt cgccgtctcg gtgatgcgca 180
 gcgccagccg cgcaggccgg gccataggcg agtggatcgg catcgagccg tcgacggcgg 240
 actctagggc ggccggtgga gcggcgaacg cac 273

<210> 28343
 <211> 407
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-023-Q1-K1-B12

 <400> 28343

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 atgccattga acatcacttg caaattcaat actttttattg aggagcacia ctttctaagg 120

cttataaata gcccaaaaaa ttctcctctt ctgctgtatc aggcattcag agtttcagac 180
 tcacaatatg cacccttcca ttcagatata cgccgttgtc ctctgcatcg taccagctt 240
 cctcagctgc aatgcagaag atgccagagc accccagacc cagagcagcc tgggttcttg 300
 ccttagccat gtcagatccc tgtacacccc atcactgaca ctagtgaact ccacaggata 360
 cgacttcttg gacatcggtg agccagtgc agcatacaca gacggct 407

<210> 28344
 <211> 207
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-B3

<400> 28344

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 agattttata ttgggcggga tcatactact aataaagtca ttaatcctat caacttcccg 120
 atcatcttat attccaataa aaaataaatc aatacacacc atttcatata aatctaatac 180
 tcttacataa atttatactt aattaat 207

<210> 28345
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-B4

<400> 28345

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 ttttgctccc aagccatctt ctggacctca caagtccagg gagtgccttc ctctgatect 120
 catcatcagg aacaggetca agtatgctct gaactaccgt gaggtcattt ctatcctgat 180
 gcaacgccat gtacttggtg atggcaaggt caggactgac aagacctacc ctgctggggt 240
 catggatgtc atttccatcc ctaagacaat ggagaactac aggctgcttt atgacaccaa 300
 gggccgcttc cgtcttcacc caatcagggg tgaggatgcc aagttcaagc tctgcaaggt 360
 gaggtccggt cagtttggcc agaaaggcat cctctacctg aacacctacg acggccgtac 420
 cattc 425

<210> 28346
 <211> 440
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-022-Q1-K1-H8

 <400> 28346

 ctctgaaaac aagcgggcta aaggatgaca ccacctgtgt cgtagttgac attatcccg 60
 ccgatcatct gacatcgcca caattgtctc caaagaaaaa tcagaacaag ttgaagtcac 120
 tttttcgtag aaggtcgcat agttcagtta gaaagcttgg aggcaagtct gcctccattg 180
 gttccgtgga ggagttatct gaagaagggt ctgcaatgct agaagaaagc ttatcttcag 240
 cttcttcaca aatttaagca gaagttctgc caaacagcca gcttctacag cagcttatta 300
 gttcagctgc ttctcagaat aactaaaag cagccaacaa gcagaagctg ctttcacca 360
 gcttctcaga taagctgctt tttcaacaag cagcagctgt gccaaacagg gccttttatg 420
 taacatataa tgtgtgggat 440

<210> 28347
 <211> 131
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-023-Q1-K1-B5

 <400> 28347

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 gaaaacctga gtattcttta tctccacgta tggtcttggt ctgcattatg gcaatggatc 120
 ttctgttttg c 131

<210> 28348
 <211> 227
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-023-Q1-K1-B6

 <400> 28348

 cactaatccg acattcctct atttctctca tggctttaag gagatcaagt gctaggcgtg 60

cggcgaaatt agttacccat gttgggtact atctatgtac tattattata tccaaaacta 120
tagttgtcct ggctgaattg aactcaaaag ggtttgtttg agaaaaaatt gtcccaagat 180
tggattgctt gttaaagctc aatattgtta ttgaagtgtt attgctt 227

<210> 28349
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-B7

<400> 28349

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tttcttctgt gttgctatta ttactactaa taaggtcatt aatcctatca gcgtccgtag 120
gttgtgattt ttggatggaa atgggatcgg ggtggacggt tggatggaga ttgatgggtgc 180
ttggttgatt ggaatggaat tattagagag gagaagatgt taggttgagg cttgcaagtt 240
gggactggac cagagtgtga ctgtgcgagg gcaggagcag tttcacagtg actgattgga 300
acctgctgtg gggaactgtc gcctcgcta tcagaaatgg tctccacaaa tgttttccgt 360
tctacctttt tgaaaaagtc tcaaattatt acattttttg tggcttta 408

<210> 28350
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-G2

<400> 28350

gcgagagtcc tcccatccac aagttcttag cttttgagag attgagatcc ggctggggac 60
agaccgacag aggaaggtga attgtggga agaggacaga aaaatgggga ttggagatgg 120
atcttcaaat gggaaccagc aaccggtgca taaggaaata cgagatgaga ccacaccact 180
tcttccagtc aaggtggaag aagacgaagg gtttcatgag ttcaatggag cttcattctc 240
tggggcagtt ttcaatctgt cgaccacat aattggggct tgaatta 287

<210> 28351
<211> 426
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-G3

<400> 28351

cggacgcgtg gggcacacga gttctttaaatt ttccttttga atgaacttgt tgatattctg 60

gaaaaagagt caagtgctgc taaggactca cccaatcat catctccaga aaaagctcca 120

aatggcccag ttcaaccttt agccaatgga gttaaaaaag aaccaccagt tactctggtc 180

cataaaaatt tccagggcat attgaccaat gaaacaagat gcctaagatg tgaaacagta 240

actgcaaggg atgaaacggt tcttgatctt agtggtgaca ttgaacaaaa tagttctatc 300

acaagctgcc tgaaaaatct ctgttctaca gagactttaa acgcagagga taaattcttc 360

tgtgacaaat gctgcagttt gcaagaagca cagaagagaa tgaagatcaa gaaggctccc 420

acatac 426

<210> 28352

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-G4

<400> 28352

agcgctgct gttgctgcca ctctgaggt cgcagcgacc gaggaggaag cggcggcccc 60

tgctcccag gccgcccgtc agtgagtcca gccagcgccg gacggcggcc gatctagctc 120

gctgctcag cctgtcacct ggcggtgcgc gcgctggtgc cactgccacg gcaacagcac 180

ggcatggcgc cggcataggt cgctaggaaa aacctgcttt tgtgttcggg ttcacgtcgt 240

gtcctacgtg gcgcggcggg ccccgccctag taaaggagcg taggagcgtc gttttgtgtt 300

gtggtcgaat aaataatgtg tctgtgtgcc gatcccggtg cgggttagtg ggcccactgt 360

cggtgctgat gtggcctgcc ttacagcac atcgggtggg ctgg 404

<210> 28353

<211> 420

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-022-Q1-K1-G5

gctgagtagc ctgagcggag cgtcgtcttc tgcaccttat agtaagaggt tgaactttcc 120
 acatcgggtg gcatcactga tgagatttag ggaaaagcgg aaggagcgga actttgataa 180
 gaagatccgg tacaatgtcc ggaaggaagt tgcacttagg atgcagcgta atagaggtca 240
 gtttacatct tcaaaaccaa agcctgatga aatagcagca tcagaaatgg cagctgcaga 300
 tggctctctg aattgggcac tagttgaagg ccgacctnca tctgctgctg aatgtcatca 360
 ctgtggtatt aatgcaacag ctacaccaat gatgcgt 397

<210> 28356
 <211> 382
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-G8

<400> 28356

cccacgcgtc cgcccacgcg tccgagcaga ccggcaaggt ccgcctagtc atgcgccagg 60
 ctaaaacgct taagatctgc gcgaaccacc tcgtggcctt caccacgaag atgcaggagc 120
 atgcgggcag cgacaagtcg tgtgtttggc acgctgctga ctttgccgat ggccaactta 180
 aggaggagat gtttgccatc aggtttggtt cggtagaaaa ctgcaagaag ttcaaggagt 240
 tggttgagga gatagctgag tcgcttacia agaacgaggg caaggaaggt gaagatggtg 300
 gttccacggc tggattgctg gcgaagetca ctgtgagcga gggcgaatct gatggaagtg 360
 gcaagtctga gtccactgat tc 382

<210> 28357
 <211> 336
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-H1

<400> 28357

accacgcgtc cgaccaaatt aaagatacag ttcttcggaa tgtgtgatga tctatactgg 60
 acagatatat atatatatat atatatatat agtatttggt taatatataa ctctgctagt 120
 atatatagta tttgttctga attcaaaaag aaaaaaaaaa aaaagcaaaa agagcaaaac 180
 aaaaataaaa aaaaacagaa caggggggccc ctataaagga gcccatatta cgcaaccctg 240

tataggaaag catacatctt ctaaacgaga ccctgaagaa aaatcaacgg gccgactttt 300
 accaagcaca gggctgggaa aaaccgggcc taaccc 336

<210> 28358
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-H12

<400> 28358

cccacgcgtc cgcccacgcg tccgcaaaaa cactattttg aagaaatatg atggcaggtt 60
 caaggacatt ttccaggagg tgtatgaagc tggttggaaa accaaatttg aagctgccgg 120
 catatggtat gagcacccgc ttatcgatga catggttagca tacgcactta agagtgaagg 180
 agggatatgtc tgggcttgca agaattatga tggagatgtg cagagcgatt tcttagctca 240
 aggttttggc tcattggggt tgatgacttc ggtactgggtg tgccctgatg gaaagacgat 300
 cgaagctgaa gctgcccacg gtactgttac ccgtcattac cgtgttcacc agaaaggagg 360
 tgaaactagt acgaacagta ttgcctcaat ctttgcgtgg acaagaggac ttgcacacag 420
 ggcaaagc 428

<210> 28359
 <211> 226
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-H3

<400> 28359

cccacgcgtc cgcccacgcg tccgcggacg cgtgggctgc aggacgtgca gctgcgctgc 60
 atcgacctca gcgaccgggc gctctccctc gacctccagg tgacgatcgc gtcgcggaac 120
 ccgaacgagc ggggtgggct gtactacaag acgctggacg cgttcaccac gtaccgcgac 180
 gaggcggtga cgggtcccggt gtcgatgccg gcgatctacc agggcc 226

<210> 28360
 <211> 394
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-H5

<400> 28360

gtacagtcgg ctaggtaatc tgggtggtacg acgacatggc ggccaccagc agcaagtcgt 60
cgtcgtctctc gagctcggcg cagcgggcag ctgccgcact gctcgtggcc gccgccgtgg 120
cgggtgtccgt cctggtggtg ggcgcggcgg cgggtgtgca catgagcaac gagcagttca 180
tgtcgtgcc a gcccgcggcg gccaaagacga cggacccgcc ggccgcggcg tcgcaggcgt 240
gctgcgacgc gctggcgggg gcggacctca agtgccctgtg cggctacaag aactcgccgt 300
ggatggggtg ctacaacatc gaccccaagc gcgccatgga gcttcgggcc aagtgcggcc 360
tcgccacgtc cgccgactgc tagcagtgtg ctag 394

<210> 28361

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-H6

<400> 28361

ccttgaccct ccatttcccc attaccctta gaactgaggc aattaaggat gaccggccgg 60
agtacgcgtc catccaagcg gtgctgttcg gaccgcacct cctcgccggc ctgacacacg 120
gcaagctgcc agtgacagac agcagccact ccaacgacgg cctgaccgca ggcatctggg 180
aagtggacgc cacaggcgcc gcctccgtcg ccggctgggt caccgccgtc cactccgaga 240
cgctcaactc acagctcgtc accctgaaac agagcattgg cgggcgcacc ctgctcttgt 300
cgggtgtccat cgctgacgcy aagctggaga tgcagcagca gcccgcggcc gggaccgacg 360
cgtgcgtgca cgccacgttc cgcgccta 388

<210> 28362

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-H7

<400> 28362

gccgccggcg ctgcagtgtc catagcctcc gcaggagact gagatggggg gttttgtcaa 60

gacccacaag agcaatgcat acttcaagcg tttccagggtg aagttcaaga gaaggcgcg 120
 tggcaagaca gactacaggg ccaggataag gctgattaac caagacaaaa acaagtacaa 180
 tacacccaaa tacagatttg ttgtgcgatt taccaacaag gacatcacag cacaaatcat 240
 ctctgctagt atagcagggtg atatggttct tgcttctgct tactcgcatg agttgccacg 300
 atatggtctt gaagttgggtc tgaccaacta tgcagctggc tactgcactg gccttctgtt 360
 ggctc 365

<210> 28363
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-G12

<400> 28363

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 agcgatggcg cgcggcggtg tgctggcgaa gggcgggcg gtcgcgggca agaagaagg 120
 gtcggtttcc ttcacgatcg actgcaccaa gccagtggag gacaagatca tggaggtcgc 180
 ctcgctcgag aagttcctgc aggagcgcat caaggtcgcc ggcggaagg ctggcaacct 240
 cggcgactcc gtcaccatct ctcgcgagaa gaccaaggtc accgtcacct ctgacggacc 300
 cttctccaag aggtacctga agtacttgac caagaagta ttgaagaagc acaacgtgcg 360
 ggattggcta cgcgtgggtg ctgccaacaa ggaccgaaac gtctatgagc t 411

<210> 28364
 <211> 370
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-E8

<400> 28364

cccacgcgtc cgcccacgcg tccgcccacg cgtccgcca cgcgtccgcg gacgcgtggg 60
 tccagatctc ccttcgcagc cgccgaggaa ccccttcaca gcgcggaaga tggctgaaca 120
 ggaggcccca gtcgtgggtg aggcaccaac ccagttctt ggggagccta tggacttgat 180
 gactgctctg cagctcgtga tgaagaagtc aagtgtcat gacggacttg tgaagggtct 240

ccgtgaggct gccaaaggcca tcgagaagca cgccgctcag ctttgcggtgc ttgctgagga 300
 ctgtgaccag ccagattacg tcaagctggg gaaggcactc tgcgctgagc acaatgttca 360
 cctgggtcact 370

<210> 28365
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-E9

<400> 28365

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 gtgcagatgg agtcctggct ttcctgctca aattcataac aatcataact tcagtgcagg 120
 gtccattgaa actgatagcc tgagtgagag gttaagttta attaagtttg aaattcagct 180
 gtacaaaaca agagacgaga aatacctcct cgatttgcaa agagtcagtg ggccacagct 240
 cctctttctg gacttgtgcg cggcctttct aactcaactg agagttcttt gatttctggg 300
 gtcagctttc catcagttgc attccttgcg tttactaga ggaatgtcta aatcgctcac 360
 aaagctgtaa atagtaatct ccagtagatt ggattttctg gagtatgtag 410

<210> 28366
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-F1

<400> 28366

ccagcttcat gctccaagga ggtgacttca ctcttgggga tgggaggggt ggtgaatgta 60
 tctatggcat gaagtgtgct gatgagaact tcaagatcaa gcacactgga ccaggccttc 120
 tgtccatggc caatgctggg agagatacaa acggatctca gtttttcatc accaccgtga 180
 caacaagctg gttggacggg aagcatgttg tgtttggcaa ggtgttgtct ggaatggatg 240
 ttgtgtacaa ggtggaagct gagggccggc agagcgggca accaaagagc aaggttgtca 300
 tagcagatag cggcgagctg ccgatgtgat gagctgaact gatgttctat ctggaaggat 360
 gttaagaagt tgctggtgac catttgtcgt tctggaactt ttat 404

<210> 28367
 <211> 247
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-022-Q1-K1-F10

 <400> 28367

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 ttccatccat ccatccatTT aattctTTTT acactcgagt cattgaaatt ttgttctggt 120
 agttttgtga ttgatttggT aggttggaga tgattgtagt agagatgccA ttgtttgtgg 180
 agtaacctac aggatattgt tacaattgtt gacatactat agatgtgcag ataattcttt 240
 caagagt 247

<210> 28368
 <211> 403
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-022-Q1-K1-F11

 <400> 28368

 agaataaagc agaagagata ccgggatgtc taagacggct ggcgtaggca gactcagagg 60
 agccggggcg tcggacgcgg ggcaataata acatttagca gctgctgtat gctaggagtt 120
 ctacggtcaa tacgtgcat ccatacactc ttacaccatg cgccacatga tctatgatga 180
 ctgctcatac aactgaatcc ctgttactaa cgTTaactcc aagatcctat ccaatgtaat 240
 cgagtactgc aacaagcacg tacatgccgt cgacgtcgcc gtcgtcgctt cgaatgccgg 300
 ttccgacgac gtgggtgcct tcttcgtcaa cagtaccgac ggcttcggtg aggaccttaa 360
 gaactgtgat gcggacttag tcaaggtcga acaggccacg ctt 403

<210> 28369
 <211> 420
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-022-Q1-K1-F12

 <400> 28369

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gagctagcag ctcgctctgt cctgcaacaa tggccgctcg ctcttgctcc cagcagctgg 120
tcgcggcgcc tggtcctggc agcggcgctg ctgctgctgg cggcggtggc cgggacggcg 180
tcagcggcgg tgagctgcgg cgaggtgacg tcgtcggtgg cgccgtgcct cgggtacgcg 240
atgggcagcg cggcgctgac ctccgcggcg tgctgcagcg gagtgcgctc gctcaacagc 300
cgcgctcgt ctgccgaaga ccggcaggcc acctgcaact gcctcaagag catgacgggc 360
cggctcggca gcggcgctcag catggccaac gccggcaaca tgcccgcaa gtgcggcgctc 420

<210> 28370
<211> 459
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-022-Q1-K1-F2

<400> 28370

atgagagttt tgcagctggt catagaggcc caaggaatgg tgataagaaa gatcataagt 60
ggaataactga cagggctgat gcatataggc ttactcgctg agaggacaac aggagggttg 120
ctagagatat ggagaagcca caggagcaac cacgccaga gcctgagacc tggcgtaagc 180
cgggtggagcc tccaaagcta gaggttgcaa cacctcgttt tgggaaagca gcaaccgcgt 240
tgagctcgc ccaggccttc tcaacgtcta tgtctgatac tgcaccacag agccggttga 300
ccagtgtccc cagtccaaga gttcctcta gcccaagggc tagtagggat cagtctggct 360
tttcaaggct cactgacagc aggacgttac actcgggccc tttccagcga aagatanatg 420
gtactgatc gctggcacac atattacatg tgccacgat 459

<210> 28371
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-F3

<400> 28371

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tcgtgctcgt ggtgaagccc cgtaagccgc aaggctgacc tagaccaagt gtacatgcaa 120

tacatgctgg tggcctcgcc gacgtcaggc gccagcctgc ttccatcgac cccaggcgcc 180
gactacatct gcatcaacat gacgtctggc ttaaccggcc agaaccctaa caaggctcggc 240
atccggtaca gcacgaccaa gtctgacgtc atgtaccacg gcgtgccgct cgagatggcg 300
gcagtgtccc ggttcgagca gcccacgcac agcacccggc t 341

<210> 28372
<211> 276
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-F4

<400> 28372

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cgatgtctac aaccgcgacg atcaccacgc cgatctgtat aaatgcctta acgacacgac 120
atccagtctc ttgcttgcca ctatggcact gcaatgtcga aggctccttt tgctgaccat 180
catgcaccaa tggctgcctt tcctaacatt ggtggccgct ctcgacacac tgccgtcact 240
gtctggaccg gaccacaaga cgcatttgcg ggccat 276

<210> 28373
<211> 255
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-F5

<400> 28373

cccacgcgtc cgcccacgcg tccgcccacg cgtccgcccga cgcgtccgcg gacgcgtggg 60
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaa aaaagagaaa aacaaacaag attcaaagat tacatcacia acagagcaat 180
ccaactgaat aaacataaaa gcaagtaaaa atcagcaaaa tgcccaacaa gatccaacgt 240
tcgggacagg gaaaaa 255

<210> 28374
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-F6

<400> 28374

aacctctccc cttttctccg tcctctccta gtccacacgg cagacgccgc cgccggggga 60
gaggagagga ggggagggga tcggctccaa gggaacaggt gagatggcaa tcctgtacgc 120
gctggtggcg cgccgacacg tggtgctggc ggagcacagc gcggcagcca ccaacgcggg 180
cgctatcgcg cgccaggtcc tcgagcgcct ccccgacggc ggccgagaca gccacgtctt 240
ctacacgcag gaccgctacg tcttccacgc caagcgcacc gacggcatca ccgcgctctg 300
catggccgac gacgccgccg gaagacggat tcccttcgca tttttggagg atattcatgg 360
aaggtttgtc aagacatat 379

<210> 28375

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-F7

<400> 28375

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cgcgagttgc ggtctcgcg cccctccac cgaccgccgc ctctcaca cgcggaagc 120
tgcttccctc tccattggac gcggccagct tccatctctc ggtcacctcc ctctacatcc 180
cacggccgct accaccttcc ctctacctca cacggccgcc ggctctcca aggtctgcac 240
acgcattcag cgacgcattt gcctatatca gactgtggg cataactcta gtagagaaag 300
gagaagatgc aagcatctag ggcaaggctt ttcaaggagt acaaggaggt acaacgagag 360
aagtcagctg accctgatat ccaattaata tgtgatgatt ccaacata 408

<210> 28376

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-F8

<400> 28376

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gccgatcgtc ggacggttcg ccgccagcca gaaggagttc ttcaggagct tcgccaggtc 120
catggtcaac atggggaaca tccaggtgct gacggggagt cagggtgaga tcaggaagaa 180
ctgtaggatg gtcaacggaa gctagacccg tcgacggcac aagttactgg tgaactgaaa 240
gcagttctgc tgtatgtacg atgcctcaaa catgttgatg ggataatggg gcgccgatcg 300
atattttgt caaggagatc caataaattg gttatttgca tttttttcaa caaaaa 356

<210> 28377
<211> 407
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-022-Q1-K1-F9

<400> 28377
ccggatcccg tccgcccccg gaccaagaat cccaacctca cagcgatggc agcatcccg 60
agcgaggaac gtgatcagaa tcagccagtg gtgcttgtga cggggtgctc ggagggcggc 120
atcggccacg cgatggcgcg cgcttctgct gcggccgggt gcgccgtcgt ggccacggcg 180
cggtcacgcg gttccatgcg cgggtctcgac ggcgacccgc ggttctctgct gctggagctc 240
gacgtgcgct ccgacgagag cgcgcgcgcc gncgtggcgg gtgcgctgcg ggagcacggc 300
cgcatcgacg tgctcgtcaa caacgctggg gttcacctcg tcgcaccact cgccgaggtg 360
cccatggagt ccttccacca ggttttcgac accaatgtct atggtgc 407

<210> 28378
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-G1

<400> 28378
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cagtgcacca ccttcctaga gcatgtcggt tgtttgatga atgctggtt atgaagaaac 120
ttaagatcga caatttttta tttgagattc ctttcgcaac tccaaaagtt tagatttgtt 180
gcctctgatc ttgaaccagg tgcggcgca ctgcttggg gcgtaggata agtccccctt 240

gcaggagcag tgcagcgtga tgccggcacc ggactcggcc gccgtgctct ccaggccaag 300
 gtggcaaattg cgacagttct gttcggcctt ctcagggctg gccttgatga tctcgctcag 360
 tccggccttc aggtcaacgt cgtccagcga gccctctgac acgcacg 407

<210> 28379
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-G11

<400> 28379

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 ggcgccggac gtcgcgggga agaggatgaa ctggatcggg cgcaagatcc acctctacaa 120
 tgtcaccatc ggcctctaca tgctcgattg gtgggagcgc tacctcttca atattttgat 180
 ggtttgctc ttctggtaca ttctccgcta tctccttggg ttcttccaaa gtaatgtgaa 240
 gactcttttc caagagggga actaccttgg gcaaggcagt acataaccat tgtcaaacia 300
 gatctgctta tgatcatttg ccccatgtaa ttccatgtgt ttaattagtt gttaactact 360
 taactgagga gctgagaaga agtaatttaa gcaagtgtta cagtgtta 407

<210> 28380
 <211> 387
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-E7

<400> 28380

ggaaatatta gatgcactgc aaagtgccag caagtctctt ggttctgata atgttaaagt 60
 aaaacaagca gcttcatcaa atcctgggtgt tccaccatct tcattaatgt cattcatagg 120
 gaagaacacg tcaacttctg gagttgtgtt ggaggatttt gattctcact tctccaatag 180
 attttatcat agctatctgg ataaccctgt aaacatcaat tcctcgtcaa tagctgcagc 240
 cgctgctttg gttgccaggt cgctgtatat tcttgctagt gatgactcag ttgttgacct 300
 tataacacta aacactataa aagtgaacgt ttcatgtgtc gaagaactta ttggatgcct 360
 gcttacttgc aatccttgtc tttcgtg 387

<210> 28381
 <211> 360
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-D12

<400> 28381

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 tgggtttatgg acagtggctg aaggacgctg gccaacattc tgtaagagcc gaggatctcg 120
 ctcagctggt gttgaatgtt ctacagatgg cgattgggga agctgagagg aacacagacg 180
 atctgctgga ccagttgaca gagctcgact atctgctcct tgtgctccac ttgatcacia 240
 acctgctgct gaacagtctc attgagcaaa tcagattgct gctcatggta ccagactgac 300
 cagtaactac cacaggaccg atgttcagaa caccagcggc tgtcttacgg actgtgcttc 360

<210> 28382
 <211> 397
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-022-Q1-K1-D2

<400> 28382

cccacgcgtc cggcgaatcg acgcgcctat ctcagcttgc tgcactgcac tgcactgccc 60
 tgccatcata tcgtacgtga gcccggccga gacgagggga gaggcattggc tgctccgaag 120
 ctgcgcacgc tggcgctggc cgtgctcctg gcggcgaccg cggtggtctc cccggccgcy 180
 gtgcgcgcgg cgatgtcgtg ctccaccgtg tacagcacgc tgatgccgtg cctgccgttc 240
 gtccagatgg gcgnggccat ggccgcccag ccgtgctgcy gcggcatccg cagcctgctg 300
 cagcaggcca acaacacccc cgaccgtcgc gccgtcgcgc tgcccagcac caacgttaac 360
 tgcaacacga ttaattaaat gaggcgttct gtgcgcg 397

<210> 28383
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-D3

<400> 28383

cccacgcgtc cgccagaaaa gtgtacaacg aactttctgc ttcagcagtt accattcaat 60

caggattgcg cgccatgtgc gcgcgtaaag agctccactt cagaagacaa acaagagctg 120

caatcatcat ccagagtcgc tgccgtcaat tcttggcgag attgcattat tcaagaacaa 180

agaaagctgc aattactaca cagtgtgcgt ggagagggaa agttgctaga aaggagctcc 240

gcaagctcaa aatggctgcc cgggaaactg gtgcattgca agctgccaaa aataaacttg 300

agaaacaagt tgaggagctc acgtggcggc tacagttgga gaagcgcattg cgagctgac 360

tcgaggaaac taaatcacia gaaaatgc 388

<210> 28384

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-D4

<400> 28384

aatacctgtc gctcttgagt gtgtgttcga actaagagct caagcaatga ccattgagtc 60

acgagggcct gccagtgtgc gcgcgtgaac aagccatgtt tactatgaag cacgggaact 120

gcattcatca tccaaagctg tttctgaaaa accttgtcaa gattgcatga ttaacaaact 180

tagagagctg atattactac acaatgagcg ttgagaggta atgttgctat acaggagctc 240

tgaacgctca aaacgtctga ccgtgtgact tgtccatggc acgctgtcaa cacttaactc 300

gagaaacaag ttgaggagc 319

<210> 28385

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-D5

<400> 28385

ataagatgga agtcagaaca tgtagttggt ttcgtttgta attttgtttc tatagtgtaa 60

gatttgacaa ggctgttagt ttgcacctcg gatctgctta tatccacagg gcaatcgata 120

gttcagcaag tattgagcta tacctatgtc ccgagaagat tagatgagtt ggcgtcttgg 180

cgatcgatgt gggcttttcc cgttggtggt ccttgcaatt ttttttcgaa aaaaaaagaa 240
 acatgttcgc tttaagcttt 260

<210> 28386
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-D6

<400> 28386

gcctgacatc tgtcttccag ggctctcaga cgtcattgga agttataaaa gcggcaaagc 60
 actacaagct atttcagcgt gcgacccatg tctactctga agcaaggaga gtttatgctt 120
 tcagggatac tgtctcttca aaactcagtg aggaaggcaa gcttaagaaa cttggtgatc 180
 ttatgaacga gagccattac agctgcagcg tgctatacga atgcagttgc cctgagctgg 240
 aagagcttgt gaaggtctgc agagacaatg gagcactggg agcacgtctg acaggagctg 300
 ggtgggggtgg ctgcgcgggt gctctgggtca aagagcccat cgtccctcag ttcattctga 360
 aactaaagga aatgtactac aaatcaagga ttgacagggg agtaatcaaa gcaggtgatg 420
 t 421

<210> 28387
 <211> 157
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-D7

<400> 28387

agcccatga gatggtattc taagtttcta gttttggagt tcgtaggaag ctgttttgtc 60
 tgtgttcttg tacttctgag ttttgtacca gtagcgaacg tttcattgtg attgaagtct 120
 tcctgccaaa tattataaga tctaagaaag ttctatc 157

<210> 28388
 <211> 275
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-D8

<400> 28388

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tcggactgga cagaggctga gagtggagtt ttgtgctgag atcggcacca gctttcattt 120

aatacagcct cagcttacct gaggcaattt tcgcacctgt tatgatgttg ttttgctctc 180

agataggttt atgtagcaca agaaagatat gttggagacg ttgacgattt tgtatgcaac 240

taaatttcta tcttaatatg ccccgattca acagc 275

<210> 28389

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-D9

<400> 28389

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cgccgccgga aggcagacgt cgacgtgggtg ctccggcgga ccgccgagta catctgcgcg 120

ctggagctga aggtggcact cctccggagg ctctctcaca tgtacgggtgt gtagcctgtg 180

ccgccggtca cccacgccat tgcttgcac cccccccacc aaagtagtag ccctatata 240

tgcgattggt tattggtcac atatggtcac atggacgtgc gtgtgtgtgt gtgtgtctag 300

ctagtagtta agatctggct gggaagaaag ccagcccccg gcccgttgct ccagctctga 360

gtgcaagaga gagagagaga gatgctttcg ctgctggtgg ctgtgtcaat 410

<210> 28390

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-E1

<400> 28390

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tcgcaaatat ctgacttctt gaccaagtat gcctacaagt gatgaaagaa gtggagcgtc 120

acttgtaaat tgtttatggt gcatagatga ggtgcctacg ggaaaaaaaa agctttaata 180

gtatttttta ttcttatttt gtaaattgca tttctgttct tttttctgtc attaattact 240

tatatttttag ttcaaaaaaa aaaaacctga atggtagaat gggacgcaac actgaaaagg 300
aacataaagc acagaagatg taaaggatac gcacaagagt gaccgataaa aaaaaggggg 360
ggccttttta aa 372

<210> 28391
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-E10

<400> 28391

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actcgccgga gctgccgctt gggcacgcgg cgcggtctggc caagaaggcc gagtgccggg 120
ccatcttcat cttcggcgcc gaggagaggt cgctccacaa catccgtgac ctcgctcgagg 180
ctgcgcgaca cacgcttggg ctgctcaacc gtggccgcct cccgtagaga ggaacgagga 240
atctatctgt aagatttggg tctggtgcgt gccgatgaat ggctaaattt gtctgttcta 300
gtataagcta ctatcaatat actgtacact tgctaattaa aagaaagaag ttttatg 357

<210> 28392
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-E11

<400> 28392

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agaacgccag gttcaggatc gttttcatcc atggcttctc ctccaccaag gagagcgggt 120
tccccgtgtc ccaggagctt gtggagcagc tgggcatata catgctcttc ttcgacagag 180
ccgggtacgg cgacagcgac gccaaaccga agcgctgcct caagagcgac gccacggacg 240
tcgaggagct cgccgacgcg ctgcagctcg gggacagggt ctacgtggta ggggtgctccg 300
tgggcggcta cccagcatgg agctgcctca aatacattcc caacaggctg gccggagtgg 360
cactgcccgc gccggcgggtg aactactggt 390

<210> 28393
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-E12

<400> 28393

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tgtgggaaca aaattcatca agcttgatgc tgaaaatgct ccattctttg tagccaaact 120
ggcaatcaaa accttgccat gtgtaatatt gttcaagtaa gtgtacaagt tattcattac 180
tcctacctat ttgacaatgt tttttgctgt ttggtaccct gcaatcttcc tacttcacca 240
tactatcatc cctgtcctat ttcaggaagg gtattgctgt tgaccggtta gttgggtttc 300
aagatctcgg aagtaaagac gatTTTTTcaa caagagcgtt ggaaaacatt ctcaagatga 360
aagggataat cgatgagaag aagaaagatg acgacgatga tgatgaagaa ag 412

<210> 28394
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-E2

<400> 28394

cccacgcgtc cgagcagcaa aaacacaggc tacctcgatc tctagctata gctaccagt 60
tcttcttcag ttccttgaga ggaggagaga acccaagaat ataatggagg ggaagaagag 120
cagcctcgcc tgctgctgcc tgctcatgtt cctgctgctg tcagcgcagc agcagcaggt 180
ggcgggcctg tccaagttct gccgctgcta ccggaactgc tacaccgact gcaggaagtc 240
cacgggccgc tacccttgca acgccaactg ctttcaggac tgcataacg ggatgctgcc 300
gccggctccg gcggaggteg tegtccccgc cgactgccgc gacatctgcc tcatgggctt 360
ctgcggctcc atggagatcg ccggtgacgc cgtggctggg gatgccgagg cgtgtgt 417

<210> 28395
<211> 374
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-022-Q1-K1-E3

<400> 28395

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cgtcgccaag aaggactaca cctacgaagc ggagagcaag gacgacaccg tcacgctcga 120
caccaccgtc gtcacctcca ccatccaggc caccgtcagg gacgacgacc cgctcgccgt 180
ctacgcttgc tccaagttcc tgcagcctaa ggagctgttc aaggccaaga ccgctgatct 240
cgcgctgcg ccggctccgc aaggggccaa gaagaagagc aagaagaagc ccaccggcac 300
ctcggcgccc ttcgcgccct cggacgatga atctgcagat ggcccgctctg ccgacgacga 360
ctcgtncgat gatg 374

<210> 28396

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-E4

<400> 28396

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actaaaggca caagccgaca tatggcggct cagcctctcc tacctcacgc ccctgtcact 120
gaggtgcgcc gtggagcttg gcatccctac ggcgatctac cgccatggcg gggctgcctc 180
agccgctgag ctggtcacgg cgtgtctctt cccctccact aagctgccgt tcttcgccg 240
cctgctgcgg ctctcgccg cgtcgggcgt gttcacgcgc gacaagcaga gtcggaaga 300
agagcgttac cgcacgacc ccgtgtccta cctcctggtg gacggcatcc ctacgagga 360
ccacatgaac caca 374

<210> 28397

<211> 414

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-022-Q1-K1-E6

<400> 28397

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gtcgcggcgg cggtcctggc agcggcgctg ctgctgctgg cggcgggggc cgggacggcg 120
tcggcggcgg tgagctgcgg cgaggtgacg tcgtcggtag cgcctgcct cgggtacgcg 180
atgggcagcg cggcgtcgcc ctccgcggcg tgctgcagcg gggtagcctc gctcaacagc 240
cgcgctcgt cgcgggcgga ccggcaggcc acctgcaact gcctcaagag catgacgggc 300
cggctcggcg gcggcgtag catggccaac gccgncaaca tccccggcaa gtgcggcgctc 360
tccgtcggcg tgcccatcag cccacccgct gactgcacca agatcaactg atcg 414

<210> 28398
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-D10

<400> 28398
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gacacgtagt tcgtgggtg ctgattgaat ctgggtctgc tctagtcgat ttgggtcccta 120
gtagtatgta acaggagaag ataagagttt gttggatgtg cttgaaagct tcgtcctgtt 180
ctcgcttccc caaccattct agagtcagaa ttccatgtca ttcaagctga tcttctcatt 240
catcgttttg ctgcatagtg cgtcttggtc caattgtctt catttaggtt ctagtttgag 300
aaccctatth tttcaatgga tttttattht taaaaaaag aaa 343

<210> 28399
<211> 405
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-022-Q1-K1-B12

<400> 28399
cccacgcgtc cggccaccaa gagctccgct gggtagggcg ccgtccggct gggcgtctcg 60
gagcccgcg cgtagggcg cgcgccgcc gcggcggcg tgtccgcggc cgtcgcggcg 120
caggtgggtg ggacccccgt agacgtcatc agccagcggc tcatgggtcca gaccccgac 180
gcctgccgct accgcggcg cgcggaagc ttccggaaga tctcctcgc ggacggcgctc 240

cgcgccctgt accgcgggtt tggcctgtcc atcctcacct acgcgccgtc gaacgcggtg 300
 tgggtggcca cctacgccgt ggcgcagcgg tgccctgtggc gcgccgtggg gaccgagcgc 360
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<210> 28400
 <211> 338
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-022-Q1-K1-B2

<400> 28400

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 tcgtcgccaa aaccctactg ctgcttgat gccatggcga gcagtgttag ccaggcgagc 120
 ctctgtctcc agaagcagct caaggatctt gcgaagaacc ccgcggatgg gttacacgnc 180
 aggcttgtaa accacagcta catcttcgag tggcaggtta ccatcatcgg accgtctgac 240
 accctatatg atggaagcta cttcaatgca ataatgacct tgggccagaa ctatcccaac 300
 agccccccat cagtcagatg cacttctgag atgtggca 338

<210> 28401
 <211> 215
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-B4

<400> 28401

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 aggaaaccag ctgtgaggtt atcaggaact tgtatggttt caatttggtt gtgggtttta 120
 acacatggca gatcgatcat cctttgcctc aaatgaagta cacatattgc tagtagctcg 180
 ccttctgcat gctttgggat atgtatgctt caata 215

<210> 28402
 <211> 385
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-B5

<400> 28402
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agtcgattca ggcgatgcag atccgccccg tggtcgcccc aatcatcacc ctagggatga 120
tcctaacttc ggcattgatc ctatggaaag gattggctgt cgtaacaggg agtgagtcgc 180
cggtttgtgt ggttctatct ggaagcatgg agcctgggtt tcgaaagggt gatgtcctgt 240
ttctgcacat gaataaggac cctgtccgca caggagacat agttgttttc aatgtcgagg 300
gccgtgatat tccaattgtc catcgtgtga tcaaagttca tgagcgccat gatacgggtg 360
actctgacat tcttacgaaa ggtga 385

<210> 28403
<211> 390
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-022-Q1-K1-B6
<400> 28403

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agcgccaaga aggcgctgga ctgggccatc gacaacctgc tccaccacgg ggacaccctc 180
gtcgtcgtcc acgtcctgca ccacggcgcg gaggagacca agcacacgct ctgggcccaag 240
tccggatccc cgctgatccc actctccgag ttccgggagc ccgaggtgat gcagggctac 300
ggcgtgcgcc ccgacgccga ggtgctcgac gcgatcgaca cggcagcgcg ccagaagcaa 360
ctgaaagtgg tggcgaaact gtactggggc 390

<210> 28404
<211> 398
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-022-Q1-K1-B7
<400> 28404

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caccgccgatg gcgcggggtc gctgccagca cgccggccta accagccgac ggaggaattc 120

aggaatgtgg tgtttggggg gcagctcacg gagggggccg acggcctcaa caagacgaag 180
aggaagacgg gtcctcgcc caaggggaag gagacaacag ggaccgggat atccaaggcc 240
gagagcgccg tgcgaactgc ctcccgatgat cgtcaggcta gccagatcac cttttccag 300
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cttagccata ccgtcgagag tgagggggac aagtagat 398

<210> 28405
<211> 275
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-B8

<400> 28405

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tttattacta gtataatgct agtgctcgcc cattgcttaa tctggaatgc taccagccag 120
atctccatgc tctcctgtga gccactcggc agagtgagga ttactaggta ggggtggcatg 180
tcattgtgctc caccctccac tggtagcagt caatcaacta aagctacccc cggattgatg 240
aggaacatcc cgcgcgatta gtggggcatg tcatt 275

<210> 28406
<211> 359
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-022-Q1-K1-C1

<400> 28406

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cgtgcccgtc cgccgctacg agcgcgcgac cgagctcacc ttcccggacc gcccctatgtg 120
ggctctacggc tccatctggg acgcctncca ctggggccacc gacgacggcc gncaccgcgc 180
cgactaccgc taccagccct tcgtcgcgcg cctcgaccgc ttcgtcgtcg ccggtgctc 240
cgnnacgcgc cccgcccgt gcaggcccgt gccggcgctc cccgcggggg ccgggctcac 300
gccgcggcag tacgcgggca tgcgctgggc gcagcanggc cacatggtct actactact 359

<210> 28407
 <211> 409
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-022-Q1-K1-C10

 <400> 28407

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 gtacgcaacc ctgcgcgaga gcagcccccg taaaatcttc ctctgcatcc tattcgctat 120
 tgccgggtggc atgcgcggtg gcgttcgtgt gcttctcggc acggtgaaac ctttattgcc 180
 gttcctgccg cactttcctc atttcttgag actttggccg ttggacggtg gactctgcgg 240
 gatccccaat ctctgctga gcttcgcac agagggcggg catggctgga aggcatacca 300
 tcattctcat gcaaccatca cagaacagat cgacgaggac atttatggac tacgattcag 360
 ttaaccactc gctggatgga atatgtggtc ttacgaaag gaaaatcag 409

<210> 28408
 <211> 415
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-022-Q1-K1-C11

 <400> 28408

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 gatggtgaga aggacggtgc tggcggcgct gctggtggcc gccgccctcg ccggcggcgc 180
 gcgggcgcag ctcaaggagg ggttctacga ctactcctgc ccacaggcgg agaagatcgt 240
 caaggactac gtgaaggcgc acatcccca cgcgcccgac gtcgcctcca ccctgctccg 300
 caccacttc cagactgct tcgtcagggg ctgcgacgcg tcagtgtgc tcaacgcgc 360
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<210> 28409
 <211> 145
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-C2

<400> 28409

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atagtgtttc ttctgtttga tactttgttg cttttttctg tctgaatgta ttttttgacc 120
attgattatg caattatttt atgtc 145

<210> 28410

<211> 412

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-022-Q1-K1-C3

<400> 28410

gccggctcac ttctccaggt aaggaaagtg ttcgtctca tggcgccgcc gcagccgaag 60
tcgggcctct tcgtgggcat caacaagggc catgtcgtca ccaagcgca gctgcctctg 120
cgcccgctcc accgcaagg gaaagcaacg aagagggtgt ccatggtcag gggccttattc 180
agagaggttg ctggctttgc tccttatgag aagcgtatca ccgagcttct gaaggttggc 240
aaggacaagc gcgctctgaa gcttgccaag agaaagcttg gaactcaca gagggcaaag 300
aagaagagag aggagatgat gggcgtnctc aggaagatga gatcggctgg tacgcacact 360
gacaagaaga aataaagcat ttcaagttca tgaatgtggc agccagagat ta 412

<210> 28411

<211> 265

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-C4

<400> 28411

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agaaaagggc aaaaacgtga ggaaatcaaa tcaaaataaa cacatactc cgaaattggt 120
tcaccgttat catgcacca aattttaatc cccttgcttt ccacttgata gacctcttct 180
tgggaaacct aaattcattc tccagttcca atagtttaca aaaatattcc tctttaaaac 240
cctggcctaa tccactttaa tcccc 265

<210> 28412
 <211> 184
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-C5

<400> 28412

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 cctgggcggtt cgccgggtacg agcgccggac cgagctcacc ttaaccgacc gccccatgtg 120
 ggtctacggc tccatctggg acacctacga ctggggcacc gactactgac gggcccgatc 180
 cgac 184

<210> 28413
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-C6

<400> 28413

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 atccatagca agaggaagcg gctgaggttg gctcgggtga gcaacatggc ggagaagctg 180
 acgccggagc aggtggacga gtgcaaggaa atcttcgacc tgttcgacgc cgacgaggac 240
 ggtcgcatcg ccacggggcga gctcgtgacg gcgctgcgct ccctggggcca gaacgtggac 300
 gaggcggaag cgcggcgctt cctggaagac gcgggcatcg cggcggggcg cggcgaca 358

<210> 28414
 <211> 250
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-D1

<400> 28414

cggacgcgtg ggggcatcca ggtaccatcg ccctgatcgc tgtcagggag ggcgtcgtgc 60
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agttcgggta cctcgagagc atccccggggg tgctgctccc gcacccgtcg tcggcgggcg 180
 tgttcgcggc cggtgggtgc gtggggcccc cgccggacat cgccgcggcg tggtcgtcgg 240
 gcctgatgcc 250

<210> 28415
 <211> 355
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-B11

<400> 28415

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 taccaagttt gaagagacca atgcactgct acgagctgtc ttgaaacttc agaaagattg 120
 aggtagggat gcataccaag tctgaggatg atgcctttgc ttaaggtttt tctaccttgc 180
 tagaacatat ctgtggttag aactttgtca gaactacgtg caatctgttt gaatgcttca 240
 aacctttgtg gtggaacctt tgtatgtttg aacctctgtt gtggaagaac tagtgtgctg 300
 gaattgtgta tgacttgtga tgagaatggt gtgtatgatg gcttttctgt gtatt 355

<210> 28416
 <211> 398
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-021-Q1-K1-G10

<400> 28416

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 cagcatgtcc taatctcttt gccattgtg ccgcagatca agttctggat gttaccaagt 120
 tacggaagat acaaaattct tccgctgagc atattgctct gcgttattca acggccaaag 180
 gaaaatgact atttctataa ctgcggttta aatattaaca gccaaagggtg ggaaaaagca 240
 gcatttgtga aaagcttcaa gcagccttgt tcttgcagta gttctccagc cactccatgg 300
 taacactctt cggcctctca agtggcatgc caagggcacg gtcccagatg agctgagatc 360
 ctatcccat gctttttgaa acaccgaaca agacagtg 398

<210> 28417
 <211> 332
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-021-Q1-K1-G12

 <400> 28417

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 ttatgagagg ctgatcgatt ggtagatacg tactcgggtg gagcagagca acgagagaca 120
 tggcgacgac gacgcgtggt gccgncgctg tcaccggcgt gctgctggtc ctgtcggcgt 180
 tggcgaacct tgcacgggcc gaggaccgct acctggtctt cgaatggaaa gttacctacc 240
 ggaacaaggt cctggttggc cttccccaaa aggtcattct tattaaccgc taatttcccg 300
 gtcccaggat taaatgggtc ttcaacaaca ac 332

<210> 28418
 <211> 251
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-021-Q1-K1-G9

 <400> 28418

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 gtcgagtgcc gtgacctcaa gcccagaaac gtgctccttc gcgccgacgg ccacgtcacg 120
 ctcaccgact tcgacctgtc ccgccttctc caccacagca tgcgtccgc ggagtcgtcg 180
 tcgccccgcg ggacagcgtc gtcccgcggt caccacaacc gtcggtcgcg cgttctcgcg 240
 cggagcgact c 251

<210> 28419
 <211> 416
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-021-Q1-K1-H10

 <400> 28419

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agatgataaa acgtgacctc ggctgaattg agaaatgggt tatccgtaat gcatttgatg 120
 atgaggagag gccctattta cctaagcaca ttctctacag gcaaaaggaa cagttcagtg 180
 atgggtgttg gtatagttgg atcgatggat tgaaggacca tgccagccaa catgtctccg 240
 attccatgat gatgaatgct ggctttgttt acccagagaa cacaccaca acaaaagaag 300
 ggtactacta cagaatgata ttcgagaaat tttttcccaa gcctgcagca aggtcaactg 360
 ttctggaag tcctagtgtg gcctgcagca ctgccaaagc tgttgaatgg gatgca 416

<210> 28420
 <211> 334
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-021-Q1-K1-H11

<400> 28420
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 aacagtctca tgtctactcc tgctgtatct gctgtcatcc gtgaaagaat cgggtgcagat 120
 ggatcaaagg ctactggtgc cttcatcttg acagcgagcc ataaccagg tggctctacg 180
 gaagactttg gtatcaaata caatatggga aatgggtggac ctgcccctga attttttacc 240
 gacaagattg tctctaatac aacgacaatc tctgaatacc tcattctctga aaacctttca 300
 gatgttgaaa tatcatgtgt cgggtgtcacc agct 334

<210> 28421
 <211> 420
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-021-Q1-K1-H12

<400> 28421
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 gccatgggag cctgcgcaac caagcccaag acgcttgagg ggcaggccac agctgaggcc 120
 gccgtctaca caccctaaagt tgcgcccagag gccactccaa tctccgttga ggttgccggt 180
 gatgaacagg tagctgagaa ggtgggtggtg gaggagccgg ctgcggcggc cgacgttgag 240
 catcagaagg ctaatgaggt gctcgctcca gaggcggacg tcgccgagcc cgaccacaag 300

gaggacgaag ccgtggagaa gaccgtcgtc gaggaggaaa agccagcggc agcagcccat 360
gcagaggaaa aggtcgccac cgnccggcgag accacgacga ctgtggaggc gaataaaacg 420

<210> 28422
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-A1

<400> 28422

cccacgcgtc cgcggacgcg tgggatttaa acgacttaag caggagaaac aggaccgtgc 60
agctgctgct ggcaaaaata ttgatgagat tcttgagcgc gaaggacttg ttgtcagagt 120
tgtttcatca gtggataaga agctggaggt taaaccacgt tttttagaaa tttttcaaga 180
agacaactac cctacagagt tcccttacia gtccaaggct gttctcttgt tccagaaaat 240
agaagggtgtg gaagtatgtc tatttggaat gtatgttcaa gaatttg 287

<210> 28423
<211> 421
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-022-Q1-K1-A11

<400> 28423

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gtcgggtggcg gagcgctcgc ctgctgccgc gtacaacacc gacagcccag atgggaattg 120
cttcgacaaa aatcgctggg ggcatgggtt tgggcatctn cttgcccacaa accatctccc 180
gatcaatgga ggagattgtg gaggcaccaa gaattcgga gtacaagaaa tttgattcca 240
gtacagccag caagactcca tctcgtggtc cttttccgct acctccaccg cccaagtctg 300
ctcctggcaa gctagtggac tctaaagccc tagaacatct tgatgcacca gttatggcgg 360
attgtctcta ctccgtctat gctttttgta agggcctagg cctctgctac aaatgtggat 420
t 421

<210> 28424

<211> 353
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-022-Q1-K1-A2

 <400> 28424

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 agattcggcg ccgtgggcct gccgtcctcc agctgaggag gaaaggcagc tatcggcgag 120
 gaaggggtggt ggactgggtg tgctagcggg ggtgggtggtg gtgggtgggtg aggatccctt 180
 ctcacgtcaa gcgctgtgtg gaaagcataa aggcgggagg aggaggagag ggcgaaggcg 240
 catagctttc ccgacgcaca aagcgaaaag gcttcataaa gaagaaagct tccgtcttgg 300
 gagggagagc gaggcacccct gcgtgtgagc gtgcgataaa tagcggctcc agg 353

<210> 28425
 <211> 372
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-022-Q1-K1-A3

 <400> 28425

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 attaggtgta ctaatgcgct agtggcactg ctgtactctt cgtgtactcc cagctatctc 120
 ctctctatac tcttgtacgt acgcacgtgt cgcaaccgca atggagtgcg agaccgggct 180
 tgtgcgctcc ctgaacagcg agggcctgtg catgtcggca gcggcgggcg cgccacgcgc 240
 cgacgccctg aactggcgca aggccgcaga ggacctgtac gggagccacc tgtacgaggt 300
 gaagcggatg gtgggtggagt tccgcgagcc gctggtgagg atccagggcg ccagcctgag 360
 catctggcaa gt 372

<210> 28426
 <211> 363
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-022-Q1-K1-A4

 <400> 28426

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 tttcttttct tgttggcctt ctcttgcct tgcttttgct tgctcgttgc ttcttgagct 120
 cgagccccgcc ccttctgcgc cttgcccag tctctgtgtg ttttttatag gcttgagagc 180
 ttggaatagc ggggggtgga ggaagcggaa gaggagcttc gttttgtgtt ctagaggag 240
 tcatgttcca tggcggcagg cctctgtccc tccgggggtc tctcaaggcg cttgaagctg 300
 atatccacca tgccaacacc ctggcgcagt ctatacacag ggcgtatggg ggtgcctgcg 360
 tgc 363

<210> 28427
 <211> 459
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-A6

<400> 28427

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 caccatcggt atagacgacg cttccctggt ggaagtcgtg gcccttggtt ctgtaagcga 180
 tgtgctggat ttcttgcaact attgtttcac actcacgtct gagatgaatt gcaagctagt 240
 gatcctcatt cacgaggata tatacgcaaa tgaggagaac atgggtctcc ttttacatct 300
 gcgctacatt gcggatcttg tgattaaagc agcaccttta agcactgggt tggctgctga 360
 tgttcatgga cagctggcgg ttgtgaacaa gggtagcttc agcgagcaaa gggcaaaagc 420
 acagaaagtt tggaacttcc atttaaagtg gaagaaaac 459

<210> 28428
 <211> 367
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-022-Q1-K1-A7

<400> 28428

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 aagcagcagg agctcccctg accctgctcc gcctccgac aaggaaaagg aagatgagct 120

actacggcca gcagcccccc gtcggcggtcc cgccgcagca aggctacccg gggaaggacg 180
gctacccgcc agcgggggtac ccgcccggccg gctaccccc gccggcgcat ggctaccac 240
cgcagggcta cccgcagcag ggctacccgc cgcagtagc gcagccgtct ncacagcagc 300
agcagagcag cgggccttcc ttcattggaag gatgcttggc tgccctctgc tgctgctgcc 360
tcctgga 367

<210> 28429
<211> 288
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-A9

<400> 28429
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tactgtagag aagagaacgg ttttggctct tgaggcgccc cctgtactgg tgttgacgct 120
gtagaactgt tacttaagtt gcttgggatg atcgtcgttg tccttagatt atcttaagac 180
tagtaatctg agcttagttt acgctcatgc tgaacatgta tcacggcttc agcttaatta 240
ccatcggtgg aaagaccagt ggagcggcga acgcacaagc ggaccggc 288

<210> 28430
<211> 301
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-B1

<400> 28430
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cattttgtga ggtaattat agagaaagg tagaaattat atgaagaaac atagtaaaaa 180
atcattgtta ggaacaaact ccaatagcag gctctacttg tacgtcgcag acataagctg 240
agactgagct gcgattgcaa cagattatac tcttctatca tggtgactga agttccctca 300
g 301

<210> 28431
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-021-Q1-K1-F9

<400> 28431

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gcctgttctg ccaaggctgt tgggtcaagtt cttcctgacg tgaatggcaa gctcactggg 120
atgtccttcc gtgttcctac tgtggatgtc tcggttggtg acctcaccgt cagaatcgag 180
aagggggcct cctatgagga tatcaagaaa gctattaagg ctgcttccga ggggccactc 240
aagggtatca tgggttatgt ggaagaggat ctgggttcta ccgacttcct tggtgacagc 300
atgtcgagca tcttcgacgc caaggccggg atcgctctga acgaccactt cgtcaagctc 360
gtctcgtggt acgacaacga gtggggctac agcaaccgc 399

<210> 28432
<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-B10

<400> 28432

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gcgataagag tggagctcct gctgagttcc agccatcatt caggaggcct ggctttgggc 120
gtggtggcgg cagcggcttc ggcgcggggc caacctcttc ttccatggag tgaagttgcc 180
cttggttttg acatggtgtt tcccttcgca tgtggccttt agttttgaag gacagttatt 240
atgtactagt aatgttactc ggatcggcca gtgctgacat atgcaaaaaa atgttcttgt 300
cgttatacat tggttccagt attattgtct t 331

<210> 28433
<211> 291
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-021-Q1-K1-A11

<400> 28433

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 ccgcggccta tgcgcggggc atctttcgag tgcgtgcgta tctgttcaag ctctgatcgg 180
 ctcttcggcc cattcgtctg aagaaactga ccgtcggctt attgctcttg ctctttaacc 240
 taatcccggg gctgagaagg gaagagaaga aggcacgtcc acaccttaaa g 291

<210> 28434
 <211> 282
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-021-Q1-K1-A12

<400> 28434

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 gagaaaattt taaaagatca aaagctcaca caaaataaaa atacaaaaaa aatacctgtg 120
 ctatagtttc actgaatcga agttcattgc cccgagtttc ccaactcttt ctactggaaa 180
 aaccctgact caaccaaatt caatggcctt gcattacatt cctacatcct cggataccct 240
 agtagcgacc aggccctaac agttcgcctt atatgacctt tt 282

<210> 28435
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-021-Q1-K1-B10

<400> 28435

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 catggctatg gctcgtccg tcgcgcacct cttctttccc atcctcctta tctccaccgc 120
 gcccgccgtg cgggccatca ccgacgccgc cggcgccccc ggatacctcc aggaggcgtg 180
 caacaagacg ctgttcccca aggtgtgcat gcacgcgctc aaggacaacc cagagtgcc 240
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 ggtgggcatg accgtggccg cgttcgcgca ccacgagctc aacgccatca aggacgacga 360
 cgtcctgtac aagtgcacg acacctgctc cg 392

<210> 28436
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-021-Q1-K1-B12

<400> 28436

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aggccgtcgc ctatgttcta cgtccacgag gcgagcgtcg tccagatcca ccaattcctc 180
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acgccgttct gcagcgagga gtgcaggag cagcagatcg aggtggacag ggcgaagcac 300
cggcggaaga agcgcgcggc ggcgcacgcg ctgtccgcac gcagcagga gcaccggcac 360
cagcagcagc tgcagcagca ccaccaccag cagcagcaac cgagccgct gaatgcccg 420
atggacaccc gc 432

<210> 28437
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-021-Q1-K1-C10

<400> 28437

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atccatatat caacttacac agagaagttc agtacgaaag cgaaagagac aataaacatc 120
aaagttagat caggagacat atgcatgtac atatacataa atataaaaga acaattttac 180
ggcgtctcga tgtgttttac catgcatata tccgcatgca tgcattgcag cggaccatcg 240
cctcttaatc tccttggtcg cccgccccctg gcagtgagtg actgctggtg cccacatgaa 300
tgaagtcttc ttgagataga gcagagcccc tttggttgat tattattcct cggaagcgga 360
aatgaaccgg acgacgggac gagagaac 388

<210> 28438
<211> 342

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-021-Q1-K1-C11

 <400> 28438

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 acctgtgcac caggactgca gggaagcacg ccaacaagta caaggtggtg gactcggaga 180
 ctgtgctaga gatgcaagtc gactcgttca agaagcgcgt gaaagcagcg cggatgctcg 240
 tcaaggagga agtcaagact gccgcgactc ccgaagcgcg taaggcgctg aaccttttca 300
 agacctacta cctggactcc gccgacaacc tcggcgctcg ca 342

<210> 28439
 <211> 117
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-021-Q1-K1-C9

 <400> 28439

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 aaaagcgcgc ctggcatgca tgtctacceca aagctatcca tactttattc ttgacaa 117

<210> 28440
 <211> 390
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-021-Q1-K1-D10

 <400> 28440

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 tcatcgccg gtgcggtcaa tgtaattaac taagcttctc aatcatacat agcttggcaa 120
 atgcctgagg gctagctaga caaggtccgt tgagctagcc cctttgggaa gaagggagag 180
 gaatggcgct ggtggcccgt tgagcgagga agaggctatt gagaaccgct taacaagaat 240
 tgccagcagc atctggacaa tcttggttaac agagttccaa aggttcaatt ccaagcggat 300
 acaatttccg agttggatcg agaagagtgc gtgcatacgt ccgtccacgt tcgtggttcg 360

tataagctag gtttcatcaa ccatgggcac

390

<210> 28441
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-021-Q1-K1-D11

<400> 28441

gtcctcgacc atccctgcaa attatcggtta tggctcccaa gatcctagtc atccttgtgt 60
tccttttcga ggccctaccg gctgctctgg ccgacttcga tgtgatagag atgctggccg 120
acaagcccac gtactccacg ttctgaagc tctgcagga caccaaggtc gcgggcgagg 180
cgaatcagct ccggtcggcg acgctactgg tcgttccga caaacttgcc aagcctctgg 240
cgtcgtgcc cgccgataag gtgcggccgg ccgtggagaa ccacgtcctt ctcagttact 300
tcgaccccat caagctggac gagatgaaaa cagcaccga catcctacc acactgctct 360
tcgtcaccga caagaaac 378

<210> 28442
<211> 120
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-021-Q1-K1-D12

<400> 28442

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aatttgtttg accacggtga tctgtcatat atgtcgtcca ttgatttggtg ttaatttgac 120

<210> 28443
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-021-Q1-K1-E10

<400> 28443

cccacgcgtc cgatctcccc tctccgctc gcctctgcag ccacagttcc gttcgtctga 60
cgcttctcca acgccgttc cagcaacaag ccggagccac tcctctcgga accggatctg 120

gagtcaggtc tgtatcttgt gtcaacgccca attgggaacc ttgaagatat caccttaagg 180
gcactgctg tcctaaaatg tgctaattgtg atactatctg aagacacaag gcattcagga 240
aagctacttc agcattacaa catcaagaca cctcttctta gcttccataa gttcaacgaa 300
cgggagagag agcccactat ctttaaggagg cttcatgaag gtgaagcagt tgcactgata 360
agtgatgctg ggacgccagg tattagtgaac cctggcatgg aactggctag actatgtgca 420
actgagaaaa 430

<210> 28444
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-021-Q1-K1-E11

<400> 28444

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ggccgccatg gctgtttcct tctacctcgt cgtggcgccc cttctcctcc tctcctcct 120
cgtctccgcc gcggccagtgc cgcgaccgt gggcgacacc gtgcatgacg cgtgcagcaa 180
gaccagttc cccaagatct gcgtggacag cctcgccgcc aagccggaga gccagaatgc 240
gacgccgcgc aagctggcag agctgttcgt gaacatcgcg gccgagaagg gatccgggat 300
ggccaccttc gtgcaccgca agtacagcga caaggaagac agcgacatat tcaagtgcta 360
cgacagctgc t 371

<210> 28445
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-021-Q1-K1-E12

<400> 28445

caagaaccta ctgcctcct acattgacca acaactaagc ctccgtgacc gccacatctg 60
attaggtgca gccatgggtg cctgtgcaac gaagcctaag acgcttgagg ggaaagcccc 120
agctgaggcc accatctcca caccgaaggt tgcacctgag accactgcca tccacattga 180
ggttgcggcg aaacaggcag tagttgagaa ggtggaggag gacaaggagg aggactaac 240

agtggcggcg aaacaagagc cagcagccac catcgagcct caacagattg ctggtgaggt 300
gaccacttcg gaagtggcgg tcgtcgttgt cgagcctgag aacaaagagg aggaggaagt 360
tgtggagaag accgtcatcg agaaggagaa gccatcagca gtccatgaag 410

<210> 28446
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-021-Q1-K1-E9

<400> 28446

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cgggcagtgt gttaagtagg gcgcgagtga gagcgagcgg ccaatcggcc gggagcgaag 120
ccacgcgtag ctgccgcctc cctccccggc cctcgggtcc gccgcgcgcg cgccggccgt 180
caccaccgca cgacgccgac caccacaatt agctagcagc ggcgctcgact aataaacgac 240
aatggcgtgc atctccctcg aggacgtccg caacgagacc gtcgacctcg agaccgtacc 300
ggtgcaggag gtgttccagc acctgaaatg caacaaggaa gggctctcca gcgccgaggg 360
agacaatctg ctcaagatct tcgggcccga caagc 395

<210> 28447
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-021-Q1-K1-F10

<400> 28447

cccacgcgtc cggcggcctc cccatggcta ggtcgggatt ctgggcgccg ccgcgtggag 60
cattgccgat gactgccact ctggtgctc ctacggtcag gttgggtcgg gcggtcgcgg 120
cctgggtcgt gcgctggtgg gcaactgggtg cgaaggcatc ggccagattt ggggaaattc 180
ctcaccgaag atcaacagtg ccgccgatcc gctgctcacg atgacctct ctaccactac 240
ttcgaccgcc attgagcgcg aggacacgtg tcatccgaaa agcaagttgg tacctggaat 300
ctcaagtgcc aggagaagaa caagtggctg aagaggagcc ggctaact g 351

<210> 28448
 <211> 349
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-021-Q1-K1-F11

<400> 28448

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 cggctctcgga gggccacttc tcgggcgtct tgtaccgtga cctcaagccc gagaacttgc 120
 tcctncgctc cgacggccac gtcacgtcga ccgacttcga cctgtcccgc ctacttcacc 180
 ccagcaggtc gtacgcggag tcgtcgtcgc ccccgccggc agcgtcgtcc cgctgccacc 240
 acaaccgacg gtcgcgcgtc cccgcgcgga gcgactcggg tctcagccag cacgtcaagt 300
 cgtactccaa cttcaacaac tccaggccca cttaccagcc ctgggtccgt 349

<210> 28449
 <211> 397
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-021-Q1-K1-F12

<400> 28449

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 ctccggcaag cagttgctat actcatccag ggtcagatca gcaactcttg ctttatcctg 120
 ctgggtggcc gcagcaccgg tgggtgtggtg gaggatggca ttgaaatacg tggccagggt 180
 accgtctcca tgggtggcgc cacaacgtcg tttggctggt tcatggggtt ccgtctgctc 240
 ggtaaaatgc ggcgcattgg gaggacggga tgttgtgtgc gccgctgtta gcttcagacc 300
 atgcatcgac attcacaagg ggaaagttaa gcagattggt gggcttactc ttcgggattc 360
 atccaatgat ggcatggaac tngtgacaaa ctttgaa 397

<210> 28450
 <211> 338
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-021-Q1-K1-A10

<400> 28450

ggtgaaggtg ttcagcaggc attgctgata atgctggaag gcacgatagt caacgttcgt 60
gaaaaaggag caaggaagca tcctcgtggg gataatatac agatagatac caaagatatt 120
ctttttatat gtggtggcgc tttcgtggat ttggagaaaa ctatatacga gagacggcag 180
gattcttcta ttggcttcgg cgcaccagtt cgtgcaaaca tgagggtcgg tggcacttca 240
agtgtcgaag tgacatcgtc cttgttgga tgggttgaga gtggtgatct aatagctnat 300
ggactttatc cagaatttat tggacgtttc cctatcct 338

<210> 28451

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-H7

<400> 28451

cccacgcgtt cggcagcggg gactgttgcg gtgttgccgc atccacgccc tagtcgacca 60
cgccgcccc agcagcccg cgtgtccgcg gctcgcgccc ccaggagccc ccgcccgcgc 120
ggctcgcgcc tcgtatccgt aacagctaca ccgtgccgcc taccctcgct tctgtctggc 180
tgcatcgtcc tcaggtcttc cgaaggcgag ctccaatccc caaccactat tcacaagatg 240
actacaaaac ttgagcaatc ttctgcccag catcgtccag caaaattcgc agcaccatcg 300
tctttgacct ccaagatctc aatgtttggg gaaaagctg gattcatcat acctaagaac 360
aagctggccg gctcactcgt aatcctgagc accagtgaca agaatgaaac accaactgca 420
tccaacgaag atagcagcaa gcatgttcac ag 452

<210> 28452

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-H8

<400> 28452

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gctgctgaga atcaggacgt aacccgacac tcgtccgcgc ccagcagcct gtgggggtga 120
 agtgcctctgt gcttgcaggc gcctgcaacc tctgcaacgg tggcatccgc ttcgtccggg 180
 agcagcaccc caacaggtat tgtatagccg cgttgcctca ttttcagtca aatcacatgc 240
 cgctgcagat tgagtctagg agggagctcc tgctcccgac ggatgaagac agcattcacg 300
 ccggaggtct gcgtcagcca ccccgagcgc tcgatggcgg cgtcccgctc cgcgagctgc 360
 ttgttccgct tcggcttccc cacgaactgc atccccttga actccaccac ggacctgaac 420
 tcgttcgtct tgaggtgctt cgtcttgtag ctgggcgggtg tgt 463

<210> 28453
 <211> 381
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-H9

<400> 28453

cggtcccggg ttcgaggcac gcgtcacgcc aaccttgaca cagagctcct tatagccgctc 60
 tgactgcatg gccgcctcga ccaagaccgt cgccgggcta ctcaccgcgg ggctcctcag 120
 cgctggctgc gtgcgaggca tgccagcgtg aagctggagg aggacacact tctgggaagc 180
 ctggccccag ccccgcgccc ggccgctcggc ggtgccgcgg ggctgcccgt cggcaagcca 240
 ggggcgtgcg ccgacgacga tctggctgat atgagcgact taatcgggat gtgatggcct 300
 cgggatcgag ctgcgcatgg cgggagatgg agaggcgaca agctgcgatc tggcatccat 360
 gagagagagg agagggggat a 381

<210> 28454
 <211> 191
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-020-Q1-K1-A10

<400> 28454

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 acttgcatgg ccaacatgtc caacatgcta tgaaccttct caaaattcac atgatgattt 120
 gcatttgcat tccatctgtc ttactgaggg taattaccgg ttgtggttca gaatgttcag 180

ggaacgcaaa a

191

<210> 28455
<211> 187
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-020-Q1-K1-A11

<400> 28455

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cgtggagctg caaagtcctg tggaattatc ttgtagcagt ttctcggcaa gatgagtcgc 120
ttcattcact gtacgtcggg gccggctact ctgaaactta catactataa gaatctgggc 180
ccttact 187

<210> 28456
<211> 128
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-020-Q1-K1-A12

<400> 28456

tcgcttgcaa aatcgcttga aaaaaatata aatgtcctgc caaatactaa caccaaaggg 60
atctgtctac aactactaac aagcaatcat ctttctcatg catcaatatt cagcttaaaa 120
catttaaa 128

<210> 28457
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-020-Q1-K1-A9

<400> 28457

acgcacgcgc tctctctatc cctataatc ctttgccata tattgatccg tctctgttac 60
ttcggtaagg gggctcttct cctttttccc accgaagttc ccccttcttt catcgatatc 120
tttttttctt gtcaccggcc ggcacagggt tccgttttcc ttgctccggc cggctgtaaa 180
agcttttcggg cctcttaggt gcctcaaadc cggtggtgct cggctcttttg gtcctgaatc 240

cagtgggaag ggaaaggggc gcttcagtgt tgggtgactc cgagacatgc ctgtgctcta 300
cgcttaccga gattaccggt gc 322

<210> 28458
<211> 64
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-020-Q1-K1-B10

<400> 28458

gtcgaccac ccctccgctt gcagaatcgc ttgaaaaaa tataaatgtc gtagctatta 60
ttcg 64

<210> 28459
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-020-Q1-K1-B12

<400> 28459

gactcttggg aggggtgggt cacaaaaggt cataggttaa caagctgtgg ggaataatgt 60
gcatgaactc accaaaggtg ggagctgatg tgtagtgtaa ggctgaacaa caaataatgg 120
ttaaagctga gcattctctt ttaataagtt ggtcaaaaat tattatcact tactaaatgt 180
aagtgtatgc caacccaaag taatagttaa tcaaaattaa taataaacca taatgtgatg 240
caaatgacaa attaagtttt acttcacaaa ttaattatgt gagtggtcga gctatctagg 300
tggcgtctcc tattcaggtt gatggcgcca atgaataatt attagttctt ttattggtat 360
ccgttatattt ttttaaactc ttccgctatg taataatt 398

<210> 28460
<211> 189
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-020-Q1-K1-B9

<400> 28460

atgcgggcaa tcaactgccag tttatctggt gctccacagt tacatatccc acccatgggtg 60

gaagtggagc tgcaaagtcc gttggaatta tctttagca gtttctcggc aagatgagtc 120
gcttcattca ctgtacgtcg gtgccggcta ctctgaaact tacatactat aagaatctgg 180
tcccttact 189

<210> 28461
<211> 271
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-020-Q1-K1-C11

<400> 28461

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ctgggtggctg accaaagcga gttacgacca actccagctc catcttgatt ctcgatgcct 120
agccccctgtg cttaagaacc tgccatgtcc agctataata ctgtcttagt attctagcaa 180
gtaccacagc acaacgttac ttattactgc tcaatcatta ttggcgatac ggaacatcaa 240
gtaacttcgt aaactgatga gcatcctgac c 271

<210> 28462
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-020-Q1-K1-C12

<400> 28462

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acagtaacat gcatcataac tctatatggg tgacacttga aattgttaca cactaagacg 120
cactgaccgt accctgcgct caattgctcg atacttgaag cttgtaggtg aatgtatcca 180
gtaagttgaa gaactggtta tctaattatt tatgtaccgg ggatccacca ttttggatac 240
gcttcatcaa tataaaagag ctccaattat taaagttagg agaaaatgac gatctctaaa 300
ctattcttga gttgtcggcc agctgccaaag actaatggaa ttgca 345

<210> 28463
<211> 123
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-020-Q1-K1-D9

<400> 28463

tcgtccacgc gtgcgcgcgt gattccgcac cccgttcgcg agcgcgacac acgctgacag 60
ctgagggctg accttgccga gtcccgaagg ccttcagctc catcttgatt cttgaggcga 120
aac 123

<210> 28464

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-020-Q1-K1-F10

<400> 28464

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ctgggtgcagg ccgccttggc agcacttcga catggccgag ccggcctggc tcaagatcgg 120
catctaccgc ggcggcatcg tgcccgtcaa ctaccaaagg gtgccgtgtg tgaagaaagg 180
cgggtgtgagg ttcatcatca acggggcgca ctacttcgag ctgggtgctca tctccaacgt 240
gggcgggtgc ggggtccattc agtcggcgtc catcaagggg tcgcgcaccg ggtggatggc 300
catgtcccgg aactggggcg tcaactggca gtccaacgcg taccttaatg gccagagcct 360
gtcgttccaa gtcaccagca acgactggca gacaaaaacc tttcccgcgc 410

<210> 28465

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-020-Q1-K1-F12

<400> 28465

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ggagatcatt ttcggctaca ggaaacagcc tcagtgaag ccacacgttt tccgaagcgt 120
gtatgttcat tggcccccaa gaaaccgtaa cgggaaaaca ggagaagacc accttgacat 180
catgactttc tacaacgaag tattcattcc tgccgtcaag tccttggttg tcgatgtagg 240
acctgtcacc agtccaaaga acaaagaaga ggaaaaagat cctgctgata tatgtccatt 300

cccagaatct accctgctgg ctcggttgcc gaaccatccc gacatgtttt caaaaaagtt 360
tctgcttccc ataacgagta cgtcttaccg atcggtcatt aaagatggac actt 414

<210> 28466
<211> 152
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-020-Q1-K1-G10

<400> 28466

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tcggctcagg aacaggccta tgctgccaca gtttcgaagc gtctatttca tggccccaaa 120
gccgtacgaa acaggaaaac cacttacata ta 152

<210> 28467
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-020-Q1-K1-G12

<400> 28467

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cccggcgcgg ctgtcgggat gccggtcagg gtggtcgata ccgccacgcc tttctcgcag 120
cccttcccag ggcaagaagc aaatactgga caccatctc ctctagatg ttcactctta 180
agtgtggaa gatcttttgc tggaactcag aatgtttcaa gtctgcagaa ggatgaagca 240
tggaagtga atgtccgcat ccatggttgc gatcttgaac aggggtatct atgtggaacg 300
atgtgaagcg ctaatggtcc attag 325

<210> 28468
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-020-Q1-K1-H11

<400> 28468

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gcatggccaa catgtccaac atgctatgaa ccttctcaaa attcacatga tgatttgtat 120
 ttgcattcca tctggcttac tgaaggttat taccggttgt ggttcagaag gtacagggaa 180
 gggaaaaata aagcgctcgg ttatagagct tgcggagaat gaacatattg agtggcgcgga 240
 agaagaactc tggaactgta gcccttcgac ttggtggccc aagagagtat cggttccttg 300
 accatgaaag cgtatctaac ctaatgggga actttaac 338

<210> 28469
 <211> 402
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-019-Q1-K1-H5

<400> 28469

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 cgacaccaca ccaccctatg ctctctgtcc tcgcccgcag ggtaagattg cagcagcagt 120
 gaatttgga gcttgaagct ttcattccgag acatggaaaa agtgatctgc cgggcatatc 180
 tccttcaatg caagcgattc ttttcgaaag aaactcttga ttggtgtgtc ttagcccgtg 240
 ggaacacca tctctcctct ctggtgaact acacatagtg gttatatgct cctctatgct 300
 ccacaacaag caggctgatg cgatattttc ctgaagttat tatattccag tctatgccag 360
 acatctacat gtaactncac caccttggtc ttcttttggg tt 402

<210> 28470
 <211> 254
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-020-Q1-K1-H12

<400> 28470

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 cttctgtcat tccccggacg agatctcact cgacgagtag cttactctca attgtcgcta 120
 tctaccccag ggcaatgctc caggaaggac ggcgcggtgt atcaacacag acggggcgcg 180
 cagaagccga tcaagtgctt acatgcaccc atgcgcgtca gaccagcgca ggtttcggcc 240
 tcgtgcagac tacc 254

<210> 28471
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-F9

<400> 28471

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aatgcctagg tgtttagctg tgcacaaata acagttaaac tttgacggct cctatttcaa 120
ctgctggaga aatgccagtg ccctatTTTT gaccaccagg gtgtggaatg gaaatcggta 180
atgctccat tttgaagggc ctgagatggt taaaagacag aacactaatg aagatcaaca 240
atatctcaaa ctaaagactt atatccaatt aactactcta gctccatggt cctagtgagc 300
gtaggtaaaa aagtgcattt actgcataaa ggaca 335

<210> 28472
<211> 441
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-019-Q1-K1-G1

<400> 28472

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accgccttgg tgtgcgttgc tctggaaggt aacagaagtt tgggagtggc ccacgcact 120
cgttctgaag ctcaacaata catcaaccct tccttccgag tggagcaaag tttacatcag 180
cgaaaacatc agcctgtgcc ctctcctaatt cctgtactcc ttcagctcgt tcacccctct 240
agacacccga atagtgttcc tcctcccgca agtccgcttc cctctatggt ccgtcgtgct 300
cttcgccagc ctgtgcctag ccctcttcca ctacctnctc gagaaagaag cccccgaaac 360
agagaccatc gcgagcacca ccactctnctt catcatgagc gtcttctgga tctcgaccac 420
ngcnggagag ctntctgagct g 441

<210> 28473
<211> 310
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-G11

<400> 28473

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ccttggggcc cgatttcacg gaactcggag tacactccgg cgatgagatt gcctcaatat 120
gatgaacctg aggccctgat agaaacagtt gacaatggga attatccgta cgcttctaata 180
cttctaccgt ggcgataatt cgactgctag gcacgctgct tcgacaagaa tgggctagac 240
taggtcaaaa tatatcgtgg tgacgtacca tacctacatc ttcatagtgc tcaagctggt 300
gatcatatac 310

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<210> 28474

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-G12

<400> 28474

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cccacgcgtc cgactctctc taccgtccga taccceaagc accagcgcgg cggcggcgac 60
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cgtcgaccct ttctctaaga aggattggta tgacatcaag gcaccgtcgg tgttcagtgt 180
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tctgaagcac agagtctttg aggtttgcct agctgatctt cagggcgacg aggatcaagc 300
ttacaggaaa atcaggctcc gtgctgaaga tgtgcagggc aggaatgtgc tcacaaactt 360
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<210> 28475

<211> 416

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-019-Q1-K1-G2

<400> 28475

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taatacagta cctatggctt ctctggacgc cgtgcgagga gacctcgccc tgctgattct 180
gtacctgaac aaggccgagg cgcgggacaa gatctgccga gcgatccagt acgggtccaa 240
gttcatcagc aacggcgagc cagggcctgc gcagaacgtc gacaagtcca ccagcctggc 300
ccggaaagtg ttccggctct gtaagttcgt caacgacctt catgctttga tcagccctnc 360
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<210> 28476
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-G3

<400> 28476

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tacctctagc ccaggaatc aattttggtt aatcctgcag aaatgttgcg cgtggatctc 180
agtgttttct gcagacgtgg atgccgtatg gaaagaactg atgcaaccgc atttgagatc 240
tcagcagact tgagcagcat ttattggcgt cagttgtgaa acttaaactg caggagcatc 300
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tgtccagtct actaataaaa tctaatagc 388

<210> 28477
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-G4

<400> 28477

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ctcggaaacg tgtacctga cgggaacagc ttcaccggcg agatcccaa gctgcagctg 180

cctgcattgg agcagttcaa cgtgtcgtac aaccagctca acgggtccat cccaacacg 240
 ctccggaaga tgccgaaaga ctcatcttta ggcaacacgg gcctctgcgg cgggccactc 300
 ggcctgtgcc ccggcgagtc cgcgcccacg ccggccggat cgccggagtc gcagccagga 360
 gcggggcggg cagtcgacgt cgggtggcggc aagaagaa 398

<210> 28478
 <211> 466
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-G5

<400> 28478

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 gttacatgaa agatccttct ctaaatectt tgacatcagg accatatggc ctcatctttg 180
 catcttatgt gccattcttc tttgacattc caatctcaat gaagtttcgc atatttggac 240
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 gaagacgttc cattgtacct ggactttctg gcatattggc tgggcttctg tategcctga 360
 atacatttgg cgtccgtagg ttgaagttcc cagagttcgc aacatcgctc ttctcgagct 420
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<210> 28479
 <211> 287
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-G7

<400> 28479

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagggg gcggacattt 180
 tagagccatg tgattgggaa aactgttggg gtgacaaaaa ttttttttat tgggtggcct 240
 tttttttatg gcatggtggg gtttttaaaa aagtgggtccg ggggaaa 287

<210> 28480
 <211> 425
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-019-Q1-K1-G8

<400> 28480

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 gagaaggcgg aaccggagtg ccaactcgtgc gagtcgggt cgccaccctc gaccggcggc 180
 gtccccctgc ctccccgtcag cataccgtca gtccccgtgc cccctgtcag cataccgtcg 240
 gtccccctgc cccctgtcag cataccgtca gtgccccctgc cgccggtgac cctccctccc 300
 attccgatcg ttgggggaag cccgagcccg acgaagaagg gacaccggaa ggcgtgcccc 360
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 attga 425

<210> 28481
 <211> 359
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-H11

<400> 28481

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 tgatggccaa gacgagctcg ttcaagctgg agcaccctc tgagaagagg cagtctgagg 180
 ctaatcggat cagagagaag taccctgaca gaattccagt gattgttgag aaagctgaga 240
 ggagtgacat tcctgacatc gactagaaga agtacctggt ccctgctgat cttacggatg 300
 gacaattcgt gtatgttgct aggaagagaa tcaagctcag tgctgagaaa gctatcttc 359

<210> 28482
 <211> 88
 <212> DNA

<213> Zea mays
 <223> Clone ID: LIB3067-019-Q1-K1-H12
 <400> 28482
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<210> 28483
 <211> 395
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-019-Q1-K1-H2
 <400> 28483

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 ttgtctgcct gacacaggta gtgacagcag atgaactgag agacgatgag gaatacaatg 180
 acattgtgga ggacatgagg gaagaaggac gcaaatatgg taacttggtg aaagttgtaa 240
 ttccacgacc tgaccccagc gatgcccag ttgctggtgt tggaaagggtg tttttggaat 300
 atgcagatgt cgaaggctcg accaaagcaa agacggtgat gcatgggcgg aaatttggcg 360
 ggaaccaggt ggtggccgtg ttctatcccg aggac 395

<210> 28484
 <211> 408
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 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-019-Q1-K1-F8
 <400> 28484

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 ttccagcttc tcccatccaa gattcaggtt ggagtcttct ctgctaccat gccccctgag 120
 gcccttgaga ttaccgcaa gttcatgaac aagccagtga gaatcctcgt gaagagagat 180
 gagctgaccc ttgaggggtat caagcagttc tatgtgaatg tggataagga agactggaag 240
 ctggacacac tgtgtgacct gtacgagacc cttgccatca cccagagtgt catctntgtc 300

aacacccggc gcaaggtgga ctggtcact gacaagatga ggagcaagga ccacattgt 360
tcttgactc atggtgacat tgaccataac actagagaca tcatcatg 408

<210> 28485
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-H3

<400> 28485

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gcacctgcga gaaactctcg cccctcgttt ccaaggacgt tcccaaggcg ttgctcccgg 180
tcgccaatcg ccccgactc tcttacgcgc tggacctcct tgaggccagc gacctcaagg 240
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gtgcgtacct ggatcggtt cgagtggagg tagttgtggt ttctgaagac cttggaagtg 360
ctggtgcatt acgagctatt tcaaagcgac tgatggcaaa cgatattttg gtagttagcg 420
gtga 424

<210> 28486
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-D9

<400> 28486

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gtaacagtga tggtagtgag agcagcgatg atgacaagag gacatagact ctactcaaca 120
gcaatctttt ttcggttcag ttgttatgat ctttacatat agttagctac attgatagcg 180
gaatgtgggg tcattttttc tgtctggccc attttgtgta catccttttt gacaacaaac 240
aggtaaaagt gacaacgttt gcaaactgac aaacaatggt gagttattca atctaaaaaa 300
taaaaaagaa gcagaaaaat caccacaacat gtttacagat agcaaggag caccaaagaa 360
aatatgtaac acc 373

<210> 28487
 <211> 375
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-019-Q1-K1-E10

<400> 28487

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 aatacaggat gcacaagcaa actagaatct tgacaacatt cttttaaata tntctatgag 180
 gtatctcgtg ccctatgcat ggaggctatt caaatttttt gccagaatca agtgtatgca 240
 ataatgctct gccagattat taagcataat aggctaatag cacctgagga acagtgtttt 300
 ttgacttggg aacttggttg tgttactgcg taaggttttg ctcccctaaa aaaaaaatgt 360
 attcattttg atgat 375

<210> 28488
 <211> 349
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-E11

<400> 28488

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 aatagtccgg cggtactaac gatctaagcc tacgcacaat actattcgat gtcattgtcct 120
 cgaatcctgg ctttatgtcc agtgacgaaa gcatgatccg gtatttcggc ccgttcaagc 180
 caccgagcta caaccagtag atatgaaaaa tcctctagga gctagagcta tacaagatgg 240
 acctgcactc gtacgacgac aaatcagatc ggtacagcat cagctccggg gcgtcgtggg 300
 agcacgaaac gccgtcgtcc aacgcatggc taatgatgac gatttgcct 349

<210> 28489
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-E12

<400> 28489

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tttcatgcct tgctgcttcg cttgtgttcg tctctccacc tagtcaggct attcctgcag 120
aaacctttgc ccgccaggc ttgtgccaga ttgcaacagt ggcagccatt gacagtgcct 180
caggctcctc tgaagtttga caacccttca gatgatgtca gcacagggat gatgatgagg 240
ggtatgaccg tcaaaaactt cgatccagtt cgctactctg gtacatggtc tgaggtagcc 300
tcgttgaaac gtgcatttgc tggtcaggga ctagaagact gtcactgtac tcagggagtg 360
tattcttttg atgagaaggc acgctcaatc cagggtggata cattctgtgt acacggtgga 420
cctgatggat acatc 435

<210> 28490

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-E5

<400> 28490

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aagggaaaaa aaaaaaaaaa aattaatata aacggcctgc ctccctcata gttccaacca 120
ttccgggact cctgcatgct acttccaacc tttccttttg cttcacccaa ttcaatttcc 180
ctgcccttct tttccctaata tctaaactgc tttaaccctt ttcttcccca atcttatttg 240
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<210> 28491

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-E6

<400> 28491

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gtacatcctt atcacggtgc tgttcgcgct cccctcgttc ctgatactgt atttcgcgta 120

tccgagcctg gactggcttg ttagggaaat ctttgctga gatttccttg ttcggtaaaa 180
tctcaatgct gttgttgagt ccttgataa ctgaaccttc cctagatctt gttgcaagcg 240
tggatgctat tgcaaagttt tggtttttac accatgagat gtgttt 286

<210> 28492
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-E7

<400> 28492

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ttgatagaga catgtgggtcc tatatatcat taggctactt caagcagata ccaaaggctg 120
gtgaagttgg ttcttccact atgctcata aaatcaacct cattgatttt gaaaatagtg 180
atggcaattt atgtcaggcg aattctatat tgtctggtat aagcatgaaa ctaccaatat 240
cccggttgca gcgtgacctc acagactcga ctgttttgag aaacctgggt atgggattag 300
gtcattctct attggcttac aaagctacca tgcgtggaat cagcaagggt caagtgaatg 360
aatcacgttt agctgaagac ctggagcaaa cttg 394

<210> 28493
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-E9

<400> 28493

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tggaagaaa ttgctggaac agcttttcag cacttcgaac aagagggcaa ccgagttata 180
tcagttgagg agttagcaca ggaactaaat ctgcgcccga cacattactc cattgtgcaa 240
gactggatca gaaaatcgga cggcaagctt aactttcttg gggtcaccaa atttttgcac 300
ggtgtcacga tacgggggtc aaatacaaga cgactactaa cagatgcaaa ctgtattcgc 360
ttctaatttg aaacctctc atcgatta 388

<210> 28494
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-F1

<400> 28494

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 ttcatgggaa aacacataga aagcaaacat agaagctgaa ctgaagaaga ttgaggaaca 180
 actggaaaag aagaaggctg aatatgcaga gaagatgaag aacaagggtg caatgataca 240
 caaggaagcc gaagagaagc gagcgatggt ggaggcaaaa cgcggtgagg aggtcctgaa 300
 ggccgaggag atggctgcca agtaccgggc caccggccac gctcctaaga agctcatcgg 360
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<210> 28495
 <211> 385
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-F12

<400> 28495

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 gcacgtttag ttccgctggt atgcccgtg actcgacttg gccacaaaca accactgtct 180
 ccagatctcc ttaatcacct accgcgaaat ccctgatttc actatcatat cactatcggg 240
 atacccatag gtccttatgg cagcagggtg cgtcacctta atcagcccca tgacgcaaat 300
 gcccatgccc aatttgcat tatcacaatg gtgctggacg gccgcaatat tagcgtcatg 360
 ctgaacatgc ttgccaacga tcacg 385

<210> 28496
 <211> 373
 <212> DNA
 <213> Zea mays

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 gcatcggcag ttgagagttc atcagctcca gaaatgactc ctcggagaat ttttcctgaa 240
 agacatgtca tgtcttttgc cgtgcctgga aatcttcttg aaggagtgtg ctgtttgtca 300
 ctctagtggg atgatcttca gttattttct agccgcaatg atgatcccgg gtcgcgcctt 360
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<210> 28499
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-D8

<400> 28499

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 gaatgtcgct actttcctag ttcatactgg gatcggaat aaagagaaca tcaagattca 180
 cggctctcta agggacctgt aaatgcatgt gccctatatt gtgtgccttc acatattgtg 240
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 tttgctattg tcaagtgtgc cttgcttgat gcaagttgcg ttttcgtatc attattatta 360
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 tcctgttggc cta 433

<210> 28500
 <211> 452
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-F7

<400> 28500

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ccgactgtat gaggtgtcc gcgggtggg agctggccgc gtcggtgatt ggggagctgg 180
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gctcgccgc tcggatcat cagcgtttgg ggaggaggc agctggcatg tggaggaggc 300
tgcgcatgg aagattcgtt gcctcgttgg tgatcgcaa taggttcgt caaccgaggc 360
ctcatattta cgtcctctac gttggagtcc tatgttgatt tggatcaaac ttataaaata 420
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<210> 28501
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-C3

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catcgctcgc cacattgctg ccatccgctc tgccgctgct ccatcgctgt ctttccccga 180
agcagtcgtg agcgagacgt gaggcgacgg tgccctgcac cactgccacc gtctcggatt 240
tgtcgtcctt caccggcatc tgtgcctcag tttgctgtcc tgcactaccg ttttccgcgg 300
cactatagtg gaggcaacac atgaaaccaa catggagaag aaaaatgaaa tggcattcca 360
cataaagctt gtgaaaaaga gttaaactcg taatttatcc t 401

<210> 28502
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-C4

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gatgttgctt tggagcgtga aacggaagga gacctctac ttgcatatat ggggcagggc 180
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tgcaatgctg acaagtcttc tcatgaacca agattgctgt taaaggctat cttegggtca 300
 ttatatatat gcctagcacg gggagcaaga gctgttctac agttttatgc tgataatgtg 360
 acgcagagtg aaatgattgt ga 382

<210> 28503
 <211> 348
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-C6

<400> 28503

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 gtacttccac caaggccttc atccaagctg acagacatgg agatagatga atgagaggag 120
 acgactatgc atgatgtgaa caacatcgag gaagagatgc gcaggaagca agctcacgct 180
 gcccaggagg cgtacgagga ggacgacgag atgccgggag gagcccagag agtgcagtgc 240
 gcgcaacagt aagcagacta tcatcaaggc aattgggagg ggtggtgccc ttaaagcatg 300
 ggagtgatct ctggttttgc tgtcgccgag ctgggaaata ggaagctg 348

<210> 28504
 <211> 420
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-019-Q1-K1-C7

<400> 28504

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 aaatcttctc aggcaagggtg cagcatttgc aacggagatg ttgatgaggc ctccttattt 180
 cctaacctcg ctctaagagc ggtagctacc gtggtgaaga tggaagacga taggaggctc 240
 tttcacaatg cggcccttcg aaagcgcgtg aaagaagtga ctgagcatat ggatgcccac 300
 aggcgaaatg gaagtagcaa ggaagctatt gagctggggc tagaagctga aagccctaga 360
 gcgttcaaag ggggtgcagta cccgtttgtg gtgggtgaga gagtnctgat catgggaaac 420

<210> 28505
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-C9

<400> 28505

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gttaacatgt aatagcagag tgagtcgata tcgatcagta gtagatttgt cgagtcaagg 180
aaggggcctg ctgctgctgc tacgcgacag cagcggccag atgtactgcc tgcctgcatg 240
catgcatgca gtccctcccg ttgactcgac ccgtagagat gggatgggaa tggaagtagc 300
cgggtccttg ggcgagtagc ggcgccttgg caccacggg ccagccgtac tggcctgtgt 360
gatgaaccgg cgagagagag atgagataat gtgcgagcga gagagggttg ggttgggttg 420
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<210> 28506
<211> 344
<212> DNA
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<223> Clone ID: LIB3067-019-Q1-K1-D1

<400> 28506

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gcttgggcct gacctctctt atcgtgcttc cagctgataa gattccagca gaagcttttg 180
atcggatctt caaagcatca cttgagcttc ttgttgctta caaggaccaa gttgcagaag 240
ctaagaaaga aaatgaagag gctgctgatg atatggatgg ttttgatgct gatgaagaag 300
atgatgatga aattgactcc gataaggaga tgggtgttga tgat 344

<210> 28507
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-D10

<400> 28507

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aagaagggat gcgattgctt gggctacata aaatatattg atgcacattt cacaaacttc 180

actggtggtg tggagacaat tgagaactgt gtttgtttgc atgaggagga tcatgggatc 240

ctttgaaac atcaagactg gagaactggt ttagcagaag taaggcggtc aaggaagctc 300

actgtttcat ttatctgtac agttgcaaac tatgagtatg gtttttactg gcacttctat 360

caagatggga aaatagaggc agaagtaaag cttactggaa ttctcagctt aagggtttg 420

atgcctgggg aatccaggaa atat 444

<210> 28508

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-D11

<400> 28508

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tgctaggccg gccacatcag gcatggacga ctgagacctg gacttctgca acccggtcac 180

gtacctgtgc cctggactcg tcaactgacc tgccagcagc tgctacatgg acagatactt 240

caacgagatc ctcaaagaca ctgagcagca cgcactgcta gcacacgcac agctggcatc 300

ctgcgttgca cgagctatcg cacacactca cctgcgtcca cgtggacacc aagat 355

<210> 28509

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-D12

<400> 28509

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attcaaatgg gaaatagtga gttccagtcg tgacaggcca aaattggatc cegtggcatt 180
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<210> 28510
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-D2

<400> 28510

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 aaccctctca gcttgctcca atcgacttct ttgtcagtac ggttgatccc acaaaggaac 180
 ctcccttggc cacagcgaac actgtccttt ccataccttc cgtggattat ccggttgaga 240
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 aaacatctga atttgcaaag aaatgggttc ctttcagcaa aaagttaaat atcgagcctc 360
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<210> 28511
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-D3

<400> 28511

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 tcggcatgat tttgtacttt caaagaaaga gtttgccgat tcttattggg aaactactaga 180
 gtgttgttat ttaacagctg gtttggctga cccgtttagt gccttacctg gcagttctgt 240
 ccctgtagtt cgtctcatct gctgtacatg attgatgcat atgattatcg catacgttga 300
 ataaatgtac ttagcgcctg aatgggttgc cccaactta cataaggtag cttctgggca 360

tgggcagtagc ggtgagaaac aaccaccttg atgcctaaat gaaggtecca tatttggtgt 420
taccat 426

<210> 28512
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-D4

<400> 28512

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ataagccgtc caccacggcg ccgagctatg tcagcgagta cgtcggccta cgaggcggt 180
gcagcggcag cgcctatac tgcaccaact cgtcgcgcgc gttcgacgcc gagctcttca 240
tgaagtttgg cgaggatgac tcgcggagca cggaaatagc caatagatcg acgatcattg 300
tgtgttacag tttaacaatag gtgtctggcc ggcgcctgt gatgtgactc gctgcaaata 360
tgctgctgcc ttatcggttg gactccacta ggcactagta gc 402

<210> 28513
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-D5

<400> 28513

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ccagttgaac cgttggagcc tagtgatttg aagccagaga acagtagata tgatgcacaa 120
attagtgtct ttggggctaa gcttcaaaag aaactggagc agtcaaaaat cttcatgggt 180
ggttctgggg ctcttgatg tgaattcttg aagaaccttg cgttaatggg tatttcttgc 240
agtcaaaaat ggaagctgac tgtgacagat gatgatgtta tagagaaaag caatctcagt 300
cgccagtttc tctttcgtga ctggaacatc ggacagccca agtccacagt tgctgcaact 360
gctgctatgg caattaatcc taaagctcat gtggagggcc ctcagaatag agc 413

<210> 28514
<211> 469
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-D6

<400> 28514

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ccatggcggc ggcagcaggc ggaggagcgg tgcgtgctct gtcccagaag gagcaggaca 180
tacagatgat gtcgcccgc gacgtccacc ttggcaccaa gaactgcgat ttccagacgg 240
agcgctatgt cttaaagcgc cgttccgacg gcatctacat catcaatctt ggcaagacat 300
gggataaact ccagcttgca gcgagggtta tcgttgccat cgagaacccg caggacatca 360
tcgtccagtc tgcccgtcca tatggccagc gtgctgtcct caagtctgct cagtacactg 420
gcgcccattgc catcgctggg aggcacaccc ctggtacatt cactaatca 469

<210> 28515
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-D7

<400> 28515

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catggagggtg cacaaaaacc ggtggatcga agagtggaac gccggccgcg agaacctcga 180
gttcaatttc cgctggaccc gccgcagcct cgccgtcgtc ggcctcttcg gcctcgtgt 240
ccccatcctc gtctacaagg gcatcgtagc cgaattccat atgcaggacg aggatgcaag 300
ccggccatac aggaagttcc tgtaagcggc gtccagggcc gcatgagacg tcgatccctc 360
taccggagct gcgaggaggg gagtttccat tcagtttgtg tcggtattgt tatagtctga 420
atctgattga gcattttgga atgcttaac 449

<210> 28516
<211> 392

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-019-Q1-K1-C2

 <400> 28516

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 tgtcaaatgg aaagagagtg gttgctaaag gataggaagc tgaagctgga tgaaggaagc 180
 aactacatgc aaccgatggc aataatgcat tgcaagggtt aggctcgta gaaatgtcaa 240
 gttggtcccg gacgtgggta tgggtgcccgc aaggccgaca gagctgagat caagcactga 300
 gatcgtgccc tcgtgcctac ggctgcatgt cacacctggc cagaggcata tgctaccact 360
 actgttctaa gaggacaacc tgctcgatag ct 392

<210> 28517
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-019-Q1-K1-B1

 <400> 28517

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 gtttggtcag ttgagttatt gcgcctgcga ccattcaatg tttccctta gatgttggtt 180
 ctggtttggt gttttagca tgctctttct ttcaccagtt tctcaactct ttgaatgaac 240
 aaaactgtgc attatttggt cttttttttt actattattt ctgtagtctg gcgaagaggc 300
 cataatactg gcacccttcc ctttccactg gacttatctg gaacgagaag agcacgtttc 360
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 gtcac 425

<210> 28518
 <211> 420
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-019-Q1-K1-B10

<400> 28518

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cactagctaa cgggtggcatg tcattgcacc aaggatgact acatagatgc tttggcctcc 120

tatggagacc agacactctg attattccgc tgctacttat gaataatgct gatcattcag 180

tccaagcaag acaagcgcgc actctcgtgt caaagctcat caggctaacc ccctaaatgc 240

acaggcaagg aggccggccc gaggccgcgc atgcaaatgc tgcacccact ctgcgaattt 300

atgtagcttt tcctccatgc tcgcatgcac tatctcatac cgacactaca cctgcatcca 360

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<210> 28519

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-B11

<400> 28519

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gccggataag caggcggccc ccgcggcaca tgagacggtc gtgcacatcg tgtacgttga 120

ccgtcccag gacgccgacc ctgaggagtt ccacattcgc accctcacc ccgtactcgg 180

ctgcgaacag aaggccaggg acgcagtgt ctaccactac aagaacgccg ccagcggctt 240

ctccgcgaag ctacaccccc agcagggtcaa ggatctcaag gagcaaccag gtgttctcca 300

ggttgtgccg agccagactt accagctaca tggctctggg tctggcactc accagggcac 360

gacacacacc ttgggcctta tgtgaaggcg tatgagaatc aagaagattg tgtttaatat 420

ggct 424

<210> 28520

<211> 166

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-B12

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tgtgttcttt tcttacgctg cggcacctaa taaatgactt gccttctatg ttttcgagaa 120
acttacatta ttcttttcta tataacaata atactgtcta ttcagt 166

<210> 28521
<211> 400
<212> DNA
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<223> Clone ID: LIB3067-019-Q1-K1-B3

<400> 28521

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tgatgtttgg tcacctgagt tattgcccct gcgaccattc aatgttgccc cttagatgat 180
ggctcctgggt aggtgtttgt agcatgctct ttctttcacc agtttctcaa ctctttgtat 240
gaaccaaact gtgcattaag tgttctctac ttttactatt atttctgtaa tctggctaaa 300
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tttacgtcta cctgcttttt taggctattc catgtgaact 400

<210> 28522
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-B4

<400> 28522

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ttccttcacg atcgactgca ccaagccagt ggaggacaag atcatggagg tcgcctcgct 180
cgagaagttc ctgcaagagc gcatcaaggt cgccggcggc aaggctggca acctcggcga 240
ctccgtcacc atctctcgcg agaagaccaa ggtcaccgtc acctctgacg gacccttctc 300
caagaggtac ctgaagtact tgaccaagaa gtacttgaag aagcacaacg tgcgggattg 360
gctacgcgtg gttgctgcca acaaggaccg aaacgtc 397

<210> 28523
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-B5

<400> 28523

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gaagatctca ttggccgggt gtgctcagct agagaatgta ctcttgacag gatcattcaa  180
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gatagtgtg aaacttgatg agatcattct actagactgc aacatgctgc gtgcaatcct  300
atggcctccg gaaggaagaa agaaaagata tcctagcaag ctgcgcattc aaacaaaaaa  360
ggagagtagc acaccagtt atatgtggtg gtatatcca gtatacgatg aaaggctgct  420
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<210> 28524
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-B7

<400> 28524

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aaatctgact tgatttgtct tcgctctcag gggagaatat actctgcctg ttgactgaac  180
tggcagtgcg catcctgctc tatcgtcttc gttgaagtgg acagcgtatg tgtgatgggt  240
cgtgaagatc actggtgtga tcatt                                     265
  
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<210> 28525
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-B8

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 cttacaccag caatgcggag aagtggatct atggggtgaa ttaacgagag agtcaatctg 240
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 atgtaataaa gtcgctaccg tcacttctga gttggattgt gaccttcagg tgtagtaagg 360
 cacaaggaag gatggaaagg aaaggaatat accgtgaaat atagagcgtg cactgagtag 420
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<210> 28526
 <211> 376
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-B9

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 attccaccat ggccgcgcgc cacagcggca cagccgatgg atccttccat gttcctccgt 180
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 tatgtttgat tgggtgtccc ttcccagtcg agatggaata aaataaatca tcaggcgcca 300
 ataagcaaaa aaaaaaaaaa cgaatggcac aatcaaagaa acaatcgaat aaaataaatc 360
 atcaagccag acaaaa 376

<210> 28527
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-C10

<400> 28527

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gcccgcgcc tagaatgcac acgtcgtgaa taagacaacg cggagaatcg gatcccaaat 180
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 gttatgtcct ccaaggccat gtggatcatg aactcttaca ttaacgattt ctacgagaag 360
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<210> 28528
 <211> 384
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-C11

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 tctggaagtt tcttgacta ggtccgcgat gcataacaga gatttctgaa tcttgacaga 300
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 gcataaaaaa ataattattg tacc 384

<210> 28529
 <211> 458
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-C12

<400> 28529

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 ctgaagaagc cagcagagga agagctcctg tcactagaag gcaccctact ggaagaagcc 180
 taaagctgat aagctgggcc tctctggcaa gtccagctgt caaggagtac gtcaagggtca 240
 agaggggcaa gaagaagggc aaaaacagcg tgtagacctt caagatctac atcttcaagg 300

tgctgaatca cgtgcaccca gacattggca tctactccaa ggtcatatct atcatgaact 360
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<210> 28530
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-A9

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 attcctaaaa gaatatgtac catatataca acatgcatac gtttgccata ggtgcatcaa 360
 gatgcgtact gagaacgcta tctaaatctt tgataactac actcctagca accacag 417

<210> 28531
 <211> 263
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-H11

<400> 28531

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 gatgatggct tttgccggtc cttatcctaa gatgaatatg gaccacttg tgaaggcatt 180
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 ggctttttcc agttggaaca aat 263

<210> 28532
 <211> 283

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-018-Q1-K1-H12

 <400> 28532

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 gtggggggccc gcggtcccgg ctccacctgc aaccgatcc tgacacgcct cgcggtgtcg 180
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<210> 28533
 <211> 356
 <212> DNA
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 <223> Clone ID: LIB3067-018-Q1-K1-H2

 <400> 28533

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 ctaatatata caatgggggt ccttattttg gtgcacctga gccctccctt cctccagatg 180
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 <212> DNA
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 <223> Clone ID: LIB3067-018-Q1-K1-H3

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ctcagcaaat gtcattgatta cgatttttttt agtatcctaa ttgctgttag ttgatagctg 240
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<210> 28536
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 <212> DNA
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 <223> Clone ID: LIB3067-018-Q1-K1-H6
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<210> 28537
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 <212> DNA
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 <223> Clone ID: LIB3067-018-Q1-K1-H7
 <400> 28537

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<210> 28538
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 <213> Zea mays
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ttattcccga cttgagaagt ttgatcggtt ggatattttt caagagtaca ttcgacacct 180
agagaaagaa gaggaagagc agaagcgggt acaaaaggat caagtgagaa gacaagagag 240
gaaaaaccgt gatgggtttc gtaaaatgct ggaagaacat gttgctgatg gcacacttaa 300
tgcaagaact cnttggcgtg attactgtgc acagataaaa gattcacagt cctacttggc 360
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<210> 28539

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-A1

<400> 28539

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ggtgtggctt gacccaacg aggtctacga gatctcgatg gctaactcgc gtcagaacat 180
tcgtaagctg gtgaaggatg gattcataat taagaagcca cagaaaatcc actcaaggtc 240
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caggggtacc agggaggcta ggctccccac caagatcctt tggatgcgca agatgcgtgt 360
ccctaagcgt ctgctgcgca agtatcgtga agcaaagaaa atcgacaaac acatgtacca 420
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<210> 28540

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-A10

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 ctctggaagg cgacgtgtct ttggaggacc ttaatgaagg tgttcgacct ggccatagcc 240
 gcttcttttg gtcatatagc agctctgatt acgattccgg gcagtacaac gaggacatgc 300
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 agaattgagga cttctcccca agccagctaa gtcaaattgt cggatctcat gcaacgatga 180
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 agcaacggct agcactctac cagggcgctc tccctattca catgcagttc tctgacgacg 360
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 gag 423

<210> 28542
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<223> Clone ID: LIB3067-019-Q1-K1-A2

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gcagtcgtag gtgatttcgg gcttgccaag cttatggact acaaggatac ccatgtcaca 180
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 agggcatttg atctagctcg tcttgcaa atgatgatg ttatgcttct tgactgggtg 360
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 tacgaggaga tcg 433

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 <212> DNA
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<223> Clone ID: LIB3067-019-Q1-K1-A3

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 ccaagacccc tggacctggg gccacgtatg cctcatggc gcttgctcat tccgggatga 240
 aaatcggaca cattgatgac gttaccccg atcacactga cagcactagc cgaaagggcc 300
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<210> 28544
 <211> 450
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-A4

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 taccatctt gctctccgtg gtgctcttgg tagttcaagc tcataccttg agcaagccag 180
 gggctacacg tcttcccctc tagcagctct gcgaccaaag atgtcttcta ctactggaaa 240
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ccaccttcct ctgaagaagc cacagttcag cgcgactttc tcaatctcgc atcgtatatt 360
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<210> 28545
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-A5

<400> 28545

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 aggggtgtag atgtggctat agaggcactt ggtaaggcgt taacattttc ccagtgcgcc 180
 aagagtgtgc gtgatggagg caaagctggt atgatcgggc ttgctgcaac gaacgtaatg 240
 ggagaggttg atataacccg tcttgtccga cgacaggaga aaatcattgg ctcatatggc 300
 gcaagggcca ggcaagacct tactcagata gtgaagctcg cggagagtgg tgccttcaat 360
 ctccagaaca ccatatcaag gaaatgcata ttcgaagagg cgaatggcgc ctatgaagat 420
 cctaatacagg gcatgatcgt aaga 444

<210> 28546
 <211> 333
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-H10

<400> 28546

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 cgacgactac tcggagggca gctgcaactg ctacaaccag acgtcgccga tcagcgccgc 180
 ctcgttctac cgtggcgga cgagccagga gatgctgctc tcgacagatg aggtgctggc 240
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 cgcgcacacg cagacctaca agaagcagtg ggt 333

<210> 28547
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-A7

<400> 28547

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accggttggc cgtgtggaga ctggtgtcat caagcctggc atggttgtca cttttgttcc 180
aactggcctg actaccgagg tgaagtctgt tgagatgcac cacgaggcgc ttcattgaggc 240
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tggtgtttgt gccttcaact tcaaagatga ccctgccaaag gaggtgtcca gcttcacctt 360
ccaggtcatc atcatgaaac caccctggca gatt 394

<210> 28548
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-A8

<400> 28548

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ctacatgatc gaaggggttg accgttctga actaccgaca cctgaagtat acgccaagcg 180
tacgactaga ccgctataga ttgttatagc ttacgatatg aggaagattg aagtagcgtg 240
ctaaatcatg atgaaataga gcatgaagtc actgccacac ccgaaac 287

<210> 28549
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-F11

<400> 28549

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accagggctt gtgctctgca agaacgatct cccctgagat gaggagcaac ccagactctg 180
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atgaccatgg attcagcgat cttgacagac accggtttag aaagactagc cctatgtctt 360
gaccgatgga tcgggctgat ctacatggaa acggtcgcgg accatggaat gggatgcacc 420
aagagagatt gggctttcct 440

<210> 28550
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-F12

<400> 28550

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tgcttcgtcg gcggcctcgc ctgggccacg gacgaccact ccctccacaa cgccttcagc 180
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<210> 28551
<211> 312
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-F2

<400> 28551

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 cgctgccaaг gagggcgгcg agggcaataa gggcaagtaa aaggгcttga agagcgттта 240
 aacctacaag acctacatat tcaaggтgct gaaccacgtg cacccgгaca ttgacatctc 300
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<210> 28552
 <211> 339
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-F3

<400> 28552

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 aagcgagacg atcagcagtt ccccaggatg ttggcatgga aagccatgca gcatgtcgcc 240
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<210> 28553
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-F4

<400> 28553

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 cttgctaagg ttgaggaaag tatggaaatg gaaaccaaga gggтggctta ctatctggaa 360

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acata 425

<210> 28554

<211> 188

<212> DNA

<213> Zea mays

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<400> 28554

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ttttatgg 188

<210> 28555

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-F6

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ttgttgagaa gtctgtttct tcgcttgcac gaagaaggcg tgctcccaga ttacaggata 240

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gtttta 306

<210> 28556

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-F8

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 <212> DNA
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<223> Clone ID: LIB3067-018-Q1-K1-F9

<400> 28557

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<210> 28558
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 <212> DNA
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<223> Clone ID: LIB3067-018-Q1-K1-G1

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<212> DNA
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<223> Clone ID: LIB3067-018-Q1-K1-G10

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<212> DNA
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<223> Clone ID: LIB3067-018-Q1-K1-G12

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<210> 28561
 <211> 409
 <212> DNA
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 <223> Clone ID: LIB3067-018-Q1-K1-G2

 <400> 28561

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 aagaagagaa ggtggaagag aaggaagaaa gcgatgatga tatgggcttc agcctcttcg 240
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 tcatgttttag attttaaggc ttgtttatgt tggaaagtac tggaaagact gctacttgct 360
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 <223> unsure at all n locations
 <223> Clone ID: LIB3067-018-Q1-K1-G4

 <400> 28562

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 ngtggctatt gataaaaaag atttctttta tgggcaatca catgaatacc accttaagtt 180
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<210> 28563
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 <212> DNA
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 <223> Clone ID: LIB3067-018-Q1-K1-G6

 <400> 28563

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cactcaatca gtgcaacgct atatccgaag ggatcatgac cgatgaactg aggagtttcc 360
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<223>      Clone ID: LIB3067-018-Q1-K1-F1

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<223>      Clone ID: LIB3067-018-Q1-K1-G8

<400>      28565

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agggaaaaaa aaaaaaaaaa aaaagacaaa aaaaaaaaaa aaaa 104

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<212>      DNA
<213>      Zea mays

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<223> Clone ID: LIB3067-018-Q1-K1-G9

<400> 28566

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gggcgtgctg gcccccttat cggatcagtt gacaaagcca ctcccacatg caattgtact 180
tgtcaacctc gacgaattgt caagtgggtgc acacaaactt ttgccagaag gcactagact 240
agctgtcact cttcgtgggtg atgaatcata cgagcagcta gatattctta aggatgttga 300
tgatataaca atgttggttac ataatgttcc atatgttgag gagaagacag gcagggtgca 360
tgctgctagg aagttatttg agtacttaca ggccaatggc ttgaacttcc ctgtaattca 420
tcacataaaa ttgcctg 437

<210> 28567

<211> 195

<212> DNA

<213> Zea mays

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<400> 28567

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ggtcgcttaa gtaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ataaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ataaaaaaaa aaaaagaaaa aataaaaaaa 180
aaagaaaaat aaata 195

<210> 28568

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-C9

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ccgcccctag gacgccaacc ctgaggagtc caaaatcgga accttaacc cggctcttggg 180

caccaaccat aaggccaggg cccacaggtt ttacacattc acaggacacg cctccgaggg 240
 ttcttcgcga aaagttaacc ccacaacatg aaagggatct aagggcgacc ccatgtgctc 300
 cacattgtgc ccagacacac tctcccgata cacagggctg ggtctcggac tctccacggc 360
 gcgacacaca 370

<210> 28569
 <211> 179
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-D1

<400> 28569

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<210> 28570
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-D11

<400> 28570

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 agcagcaaga agcaaagcaa tggagaaccc tgcgagtgtg ctagttctac cagcgcagtt 180
 caccaaactc accttccgaa acctgtacat ccgccggggc gggccgggca gcagggagat 240
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 cggccgcggc cccgacgcca gccttggtggc ccgcgtgcag gggatcacca gcgaaatcgg 360
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<400> 28571

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aagggatgcg attgcttggg ctacataaaa tattttgatg cacatttcac aaacttcact 180
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gtttcattta tctgtacagt tgcaaaactat gagtatgggt ttactggca cttctatcag 360
gatgggaaaa tagaggcaga agtaaagctt actggaattc tcagcttagg ggctttgatg 420
cctggggaat cg 432

<210> 28572

<211> 77

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-D2

<400> 28572

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gtctcagtgg ctctgac 77

<210> 28573

<211> 292

<212> DNA

<213> Zea mays

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<400> 28573

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cgatctttgt acagtttctc ttttcaataa tcaagatgag ccgtggtggt agtgccggtg 180
gtggtcaaag ttctctgggt tatcttcttg gaagctggga gcccccaaa ccagcattgg 240
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<210> 28574
<211> 283
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-D6

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gcgggtgccg acgcggcgcc gtgttcattg caacggagga ttgggacctg cggtaggagg 180
acgcctcgcc tacgagttcc agtttgacct ttagaacccc ttcattcaggc ccggcgacca 240
gccgaacggc aagcttcttg aaccccaagg gcaacaagcc gcc 283

<210> 28575
<211> 68
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-D7

<400> 28575

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ggtaggct 68

<210> 28576
<211> 302
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-018-Q1-K1-E1

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cggcacgtcg gtgaccatca ccgccaccaa cctgtgcctt cccaactacg cgctgccccaa 120
cgacgacggc ggctggtgca acccgccgcy gcagcacttc gacatggccg agccggcctg 180
gctcaagatc ggcatctacc gggcgggcat cgtgcccgtc aactaccata gggtgccgtg 240

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ca 302

<210> 28577
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-E11

<400> 28577

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aagaaattgc tggcacagtc tttcagcact tcgaacttga tggccaccga ttgatatcag 180
ccgatgagtt agcacacgaa ctaaattgtgt cgccgacaca ttacttcatt gtgcatgact 240
ggatcacaaa atcggacggc atgcctaaact tctttgggtt caccagaatt cttcacgggtg 300
tcacgatact gggtttaaat acaatacgac actaaacaga tgcaaactgt attcacttct 360
aatttgaaga ctctca 376

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<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-E2

<400> 28578

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aaggaaaaaa aaaaaaaaaa aaaaaataaa aaaaaataaa aataaaaaata aaaaaaaaaat 120
aaaaaaaaaa aattgtaaat atatataaaa caaaataaaa tatagaaaaa atataattaa 180
aaaaataaaa aaatataaaa 200

<210> 28579
<211> 162
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-E3

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagaaag gg 162

<210> 28580
 <211> 316
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-018-Q1-K1-E4

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 cggagtacgg cagtcgcacc cccgctcgtc cgttccttgg tcgacccaaa ttcgccggcg 180
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 <223> Clone ID: LIB3067-018-Q1-K1-E6

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 cctaaggagc tgggtatacc gaccaaagcg tactacgctg tggaggatgt taaatagaat 180
 gcaactcaga aaagtcagaa tgtatttgtc catgttcctt cagaaattg 229

<210> 28582
 <211> 477
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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gctggttcat cacttgggcc ttctgcccgg aagaagaggg tctagatcag cagtgcact 180
tggagaattht tgggtttgag acagtggcgc cagagcacta atgctggtca gaagacgatt 240
atctggatca agttttctaatt cctgggatttt aacacggatg ttgaaaaatc caaatagtgt 300
tagttgcctg ttctctaaga tttgggtggtt cgtttccctt gaatgtgata ttcattcttg 360
ctttatttnc atttttaccct ttgattatat gtcttgctaa ctaagacatt gttttgttta 420
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<210> 28583

<211> 117

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-E8

<400> 28583

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<210> 28584

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-C6

<400> 28584

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taaattctaa accaggcctg ttctgttcctc cccgaacgag gactagaact agccaaactg 180
ttagaaacga acggcctcct aggtcttggtt cgtttacacc aatccagctc tgtattaaca 240
atctatgccca caatctattc ccttagacct tgttcgttta tgagcgccta ggccaaaaag 300

gcgtgtggaa ctacagtcta ccgttcatat ccgacgttgt agatcctagc gcgaatgggt 360
gacatcacta gtcctgacat caagcttggg gcaacgacgc gttacggaca ttaagattgt 420
gtcacatatg tgc 433

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<223> Clone ID: LIB3067-018-Q1-K1-B1

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aggaaacttg cagtctacca tctgaatcga gttatgctga taaatcatca tctgaacctc 180
caagttctac tccattaagc gaccccatca acaataaggt gcatttgctc agaaccatgc 240
ttcaatggga ggagcaagtt cgtcgtggcg catctttggc agagaaaagt ctcagtgcaa 300
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ttattagaat gagcacttgt agcacaactg ctga 394

<210> 28586
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-B10

<400> 28586

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cccaggacca caagctcatg ttcggactcc tcttctccct tcgctccttc accgccaaga 120
tcgacccaac cacggctgaa aagggaaatc ttggagtgcc actgctgcca ggccaagggt 180
gctcgtttta tagcttcaag acaaacacat acaaactgaa cttcatggag agcccttctg 240
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atatatacaa tctatatgtg gaatatgttg taaaaaatcc tctgtatgct cctggaacac 360
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<210> 28587
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<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-B11

<400> 28587

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aagtacaggt gccgcgactt cctccccgaa aactgcggct gcaagatcca ctagagactc 180
atccaattcc accatggccg cgcgccacag cggcacagcc gatggatcct tccatgttcc 240
tgcgtccgtc cgccttgcta caagcaggca gccacaccaa taagctagct cttgttggtg 300
atgtgtatgt ttgattgggt gtcccttccc agtcgagatg gaataaaata aatcatcaag 360
cgcc 364

<210> 28588
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<223> Clone ID: LIB3067-018-Q1-K1-B2

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ggcctgtggg tctggcctga tggaaaggcc gtttgtccaa aaggctcgtg ccctgttgaa 180
gccatttgct tgaaacgggt gccctgtcaa tcgttgattg gattaagcc 229

<210> 28589
<211> 308
<212> DNA
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<223> Clone ID: LIB3067-018-Q1-K1-B3

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 gccgacccat cccccaacct ctctgtctcc ggcttaagca agcgtaccac aagtgaagga 180
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 aagggaat 308

<210> 28590
 <211> 346
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-B4

<400> 28590

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 aggacaagat tagacctctt tggaggcatt acttccagaa caccaggggt cttatctttg 180
 ttgtggacag caatgaccgt gaccgtgttg ttgaagccag agatgagctc cacaggatgc 240
 tgaacgagga tgagctacgt gatgctgtgc tgcttgtttt tgccaacaag caagatcttc 300
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<210> 28591
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 <212> DNA
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<223> Clone ID: LIB3067-018-Q1-K1-B5

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 tcaccagga ccttgacgac ttcctcctca acgagttcgc cgcgctatcc gccgctgcag 300
 gggcgctcga tgatgacgaa gacgttgagg atgaggatgg tgggctcg 348

1. The first group of people who are not in the majority are those who are not in the majority.

<400>	28592
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<400>	28593
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<400>	28594
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12392

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aaggagatcg aggccgtccc caaagacgag ggctaccgca aggccgttga gtccttcacc 240
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ggatg 305

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<211> 433
<212> DNA
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<223> Clone ID: LIB3067-018-Q1-K1-B9

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<210> 28596
<211> 376
<212> DNA
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<223> Clone ID: LIB3067-018-Q1-K1-C1

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<223> Clone ID: LIB3067-018-Q1-K1-C10

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<210> 28598
 <211> 176
 <212> DNA
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<223> Clone ID: LIB3067-018-Q1-K1-C11

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<210> 28599
 <211> 440
 <212> DNA
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<223> Clone ID: LIB3067-018-Q1-K1-C12

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ttcagcaata tacaaatagc ttcagagagg agaatgtgat aagagagagt agattaggaa 240
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<210> 28601
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<212> DNA
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<223> Clone ID: LIB3067-018-Q1-K1-C3

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tctttcagga tgactcgttc tgggtgtgtaa gatcaggatga tgtgcagctc ccccttcctg 240
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tctcttcttg aaaa

374

<210> 28602
<211> 95
<212> DNA
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<223> Clone ID: LIB3067-018-Q1-K1-C5

<400> 28602

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ggcagaaata acaagggtg tcggccttct ggctc 95

<210> 28603
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-A9

<400> 28603

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gagcattgcc atcatatgca tcattcagaa atccaggatc agggccgtaa aagggttgga 120

ctatgtatct gcaacatcgc aagcaacagg gaggctgtct cttcagaaat tttcaagagg 180

acgtgtcagt aacatactca ggaggccgtc tcttcattca aagagtatct tttacacgac 240

ttcttgagta taaaaaactc atttgtacaa tcttacctgt ctattgaatt gtcttttagaa 300

aaaaaaagtc tttattgtat gtactttttt tttttatctt ttatgcctga agaactgttt 360

tccccttttc ttttagaagt aggagccggt aaagctactc tttcaatttg tcacaagcat 420

tatttatattt tataatttgt cctctg 446

<210> 28604
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-H12

<400> 28604

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gtagcagccg aagaagatgc aaacttgaat aggcaatcaa aaccagccat taacaaactt 120
 atgaagcttc ctctgctcat agatgttctc tccaagaaga atcttcagca ggaatttctt 180
 gaccacggag ttctcactct tctaaaaaat tggettgage cattacctga tggaagcatg 240
 ccaaacatga atattcgatc tgctgtactg aaattattaa ctgattttcc aattgacttg 300
 gaacagtatg accgaagaga gcagcttaag aaaagtgggc tgggaaaggt cattatgttg 360
 ttgtccagat ctgacgagga gactactgca aataggaaat tggctaagga gctggttgat 420
 a 421

<210> 28605
 <211> 263
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-H3

<400> 28605

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 gccctggttg gggctttgcg acccaacttg ctcaccaggt cacggcaagt ggtgccggcg 120
 aggaacgcgc cgatgacatt cgagtcggtg atgttgggca gctcgggtcg ctgcttcgag 180
 aatcgccgga ttagtccccg gaaagactct tccggctact gccggcagct tttgagatcc 240
 caggaatttc cggggcgcac gta 263

<210> 28606
 <211> 445
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-017-Q1-K1-H4

<400> 28606

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 gctttattac cagataagtc gactgtgctt gaccgagcaa tgatcgagca taatctcctt 120
 agtgccagta aactttacac aaatatcagc tttgatgagc ttgggacatt actggggatt 180
 gatccaagga aggctgagaa gatagcatct cggatgattt atgaggatag aatgcggggc 240
 tcaattgatc aggttgaggc tgtgatacat tttgatgatg acacggaaga gctgcagcaa 300

tgggatcagc agattgctgg actgtgccc gccctgaatg acatccttga cagcatgtca 360
 agcaagggaa taactattcc ggtgtgaata aatatctcat gctgtcggtc gatgggtgcat 420
 ggcanaactg ctaacatgcc ccgga 445

<210> 28607
 <211> 401
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-017-Q1-K1-H5
 <400> 28607

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 ctggaaccgg cagggatacc aggcaaccat caccgcacag tggctcgagca tcgggctcgc 120
 ttcttccact gctgtcactg ctccgatct atgggcggta cgctgctttt gctgcctcgc 180
 tcgctcttca gattgcataa ctccatacca taaccaatgt aatgaaggct ggctgggtgtt 240
 cgggcttgag atttcgtgtt ccattttgtt gtgcagcact cgctgcttct ggctcaaggc 300
 cagctatcaa ctccggtgcc accttacgac tgcaagatgt atgtcttgac gccgaactag 360
 ctcaaaagac aatagcggat tgttccatgg cgcgtgggat g 401

<210> 28608
 <211> 452
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-017-Q1-K1-H7
 <400> 28608

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 tgacttgccc cggctacatt agaacggcta ttccttcggg actatgacat tattgtgtcg 120
 atggttcctc ttccttcac agttcttcca ggcccttcag gcccaattca ttttggacca 180
 ccatcttatt cctccatgac accttggtat aagctagtag tgtatacagc aggacattgt 240
 ggaccagtat ctgctgtgtt catgaaagg ctacgtttta gattgctgcc tgaaccatta 300
 gctggttgtg agaaggcact gctatggtct tgggatggct ctgtggtggg tggattaagg 360
 ggaaagtttg aagggaactt actgaagggc aacttattgt tacactgctt gaattcgatg 420

ctgaaacaat ctgctgtact ggtgcaacca ct

452

<210> 28609
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-H8

<400> 28609

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aaagagatga gaaaaaagat aatactccaa cgcattcctc atttggagct atgttgaagt 120
acatcattgc gccacttaag gacaaaagaa tgctttctcac cattcctctt atagcatatt 180
cagggtttaca acaggcattt gtatgggcgg tattcacaaa gagtattgta acacccgttc 240
ttggcatcag cggcgttggg ggagccatgg caatttatgg tgcagcagat gtagtttggt 300
ctttgggttc tggacgattg accttcggac ttcgctcagc agcatttata gtgtcgggtg 360
gagctattct tcaggccata gtccgtttct ggctgcttct tttttacagt ccaatggatg 420
gact 424

<210> 28610
<211> 153
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-H9

<400> 28610

aaaaaaaaat atacaaaata attctaatta tattataaaa caaaaaata acaaaatcta 60
ttgggaacta ttgaaataaa attaaaacta catccaataa ataaaaaaag tggccgccca 120
tttttaagct ttccaatttt cctccccctt cct 153

<210> 28611
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-A1

<400> 28611

gacgaattac gagaaaaaaa agaaaaagaa taaaacaata gccggaagcc gaagtacagc 60
gctgtcgcga acgctccggt cctatactcc tcctgacctc gattccccga ctacctagat 120
ctcgaactcc caccatcgcc gccgcccgcc atggcgaagg agttccccgt gccaccggtg 180
gtcttcacgc cgtccacccc aacacaccgt cggcaccctc ccccgggcat gggggactcc 240
cctccgcccg cgttcgcgcc gccacgtccc tccacctcat ccgtcgtcaa cccgctccct 300
ttcatgtcgt tcgatgtc 318

<210> 28612
<211> 297
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-A10

<400> 28612

gtgacccttg tcaaaatata aaaaagataa atgaaagaaa tataaagcac aaaaaggag 60
aagagcatta caaaaggatg gataaactca agataatagg tatagaaaaa taaatatggt 120
gaggactaat gttacaacaa ttgagaaagg cgtatggcga ttttcatgtc ccaaagttaa 180
cttgctgacc tttcattgat attcggttgc acgtaggcaa tgtattagaa gttcactttc 240
agtgggtgta ttgtgacata agtgcttata ttgcgagttg aataagttta atgtggt 297

<210> 28613
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-A11

<400> 28613

cccactcgtc cgcccacgcg tccggatgcc ccaatcgcca ccgctcccag cactggatcc 60
gcagcaggaa gaggtgtagc catgatcaaa gtcagttctg aaacattata tggctctcgt 120
ttgcggacct tcaagccttc cctaaagggt tgttctctca tttgagcaat ggggaatgta 180
actggtactt tacctttacg tatgtaaggc tctggcatgg ctttgccgac ctctgctgta 240
tctgcctatc tggaggtggg agaccaagat gccagaaga gtgtgtacca tatatacacc 300
atgcatgcgt gtgccatggc taccttaaga agcgtagcga ggaggattcc tcatttctgg 360

ttgacttcct ccaggaaacc aggggaagag aaggttgct cataaatttg tacaaaaaat 420
gactatttca ccttg 435

<210> 28614
<211> 304
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-A2

<400> 28614

gccatgtatg aggttccaga cgaaaaaaca ggaaatgagc gagttgacgc tggttggtg 60
gatgaggagg cgattgggtc cgttgatagg ccaggttggtg gggctaaaat tctccgaggg 120
gatggtgcat tggaccagta cataacaaga accaatgtga tgaatttaca ggaaactaac 180
gatggtttgg ccggtgagct cgaggaagcg tacatgctgt ctagaattgt tagctagtaa 240
tttgaaaggc tggggaggaa gcgtatatgc tgagttctga ccaacttcgt acatcgtgta 300
acat 304

<210> 28615
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-A3

<400> 28615

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gagcatagct gcgtttggag ccaaccggag ttgcctggca tcgagtacag attctgatgt 120
ggagaacagg gcgcctggca tgaatcagtg gcctctccac ccaactctga tagcctgcca 180
caaggggtgga aaagagatcg cagtcgcaag aggaatatca tcctgccaac atgggtgagc 240
cgcgggcgca tcatactaaa ttactaatta cgtttctcct ctgctcgtec accgccagtt 300
tctgtgtttc tcatagcaag tagaactaaa gcacctcaa gatgtaaagt tatgtatgca 360
gtcgcaaata ggtaggatt ttgagcacat attgataatt ttatatacatg gagaggcagt 420
atgtatgtga aataatacga g 441

<210> 28616
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-A4

<400> 28616

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gtgttatgaa atgtgcaact ctttaatcag ggatggcaac cgatagtga gacctgaagg 120
cagctgaggt tgtggttgac tggcataaac aggacaaaaa gaggatgctc catgcagttt 180
accgtgttgg ggatctggac cgcacaatca agtactacac agaatgcttt gggatgaaac 240
tgctgaagaa aagggatgtt cctgatgaga agtacaccaa cgcctttctt ggctttgggc 300
ctaaaaaaca ccacttttgc agtgaattta ccaact 336

<210> 28617
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-A5

<400> 28617

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gtcatctcct cgatcatggc gaaggcgcag gcgccagggc cgcaccctct acggcttcgg 120
cggctaggct gagtaccatc gccgaggacg acagggagat gctggcgctg tgcgggtcac 180
cgtcggacca cggccacgcg caggcgcagg tggcggcgag gttcatgacg gaagtggcgc 240
cgccgcaggt ggtgtcggtc atgcggcgaa ggaaggcgcc gaggagcctg gacaccatcg 300
gcgaagacga cagggagcag cagctggcgt gcgggtcggc atctgaccac ggcttcgcga 360
cggcgtggtc gtcgctccag aggataccga ctccac 396

<210> 28618
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-A6

<400> 28618

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ggaggtcttg ctggaagcct ctgagaagct gaagatacag gcagacaaag cacagaagga 120
cctcagtgtg atcgccaccg aggttagtca ggagggacag gaatatctgg tgatggcagc 180
tcggaactcc ccagactcga tcaaggatat tacaacaacg ttcagggctc ttggaagatt 240
gaattggcca tcagagtatg aggattatca tgtgggcatt ccgtttggta cccttcttac 300
agtagggggt ttcctcaact tcatgttgac tggaagtacc tctgctcttc gt 352

<210> 28619
<211> 106
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-A7

<400> 28619

gaccctgctg atgcagtccc tgttaatgca tgcgtatgat gcctacttca tggggactag 60
ggaagttttg ctgcaagcct ctgagaatct gaatatacag tcatac 106

<210> 28620
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-A8

<400> 28620

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ctggaggatg gccgcaccct tgcggattac aacatccaga aggagagcac cctccacctg 120
gtgctccgtc tcaggggtgg tatgcagatc tttgtgaaga cactcactgg caagacaatc 180
acccttgagg tggagtcttc ggataccatt gacaatgtca aggccaagat ccaggacaag 240
gagggcatcc caccgacca gcagcgctc atcttcgccg gcaagcagct ggaggatggc 300
cgcaccctgg cggattacaa ca 322

<210> 28621
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-H11

<400> 28621

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caactgtcat ttgcactgtt cctctgttca cttgtttgcc actgagttac aatacgttat 120
cagcactgct cgtgagagaa cagagagaag tcgatgttga aagggtgaag aaacaagcga 180
gaaagggaaa tgaagaacta tcgtggacgt tggcggacgg gagtcttcca tgcggaactc 240
tagcatgcac ttggactttg gacttcatgc gtctgtccgt cgacgtgagt tatctattgc 300
gaatccaaac caaaaatcaa tgtgtgtgtc tgcaccacga tgacggctac gatgtggccg 360
gatgagacct tgttcggggg gcttgtgcct gcggagccag atccgcgtcg ggaccatgcc 420
tgacca 426

<210> 28622

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-F12

<400> 28622

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gccgtggctc ctatcaaaga aaccatcacc gctgccatca taccgaatgc atggctctgca 120
ctgaatgttg gtgcacccca ttgtaaaggg tatggaatgc ttatcctaag agagtggaaa 180
gttacatgaa aaatgtaaaa acattgatgt taaaattagt caatgataca tagggaagtc 240
tccaaacat tgtgatgaag atatgagatt ggcacggtct gtccgacagt tgatctgggt 300
gacaagtgct gtgtgcttgt atgcaccact tgctgggagg atgtgggca 349

<210> 28623

<211> 109

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-F2

<400> 28623

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tgcttagttt gtttcttcaa tgaaagatga cagttgcgtt ttacctgtc

109

<210> 28624

<211> 221

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-F3

<400> 28624

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<210> 28625

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-F4

<400> 28625

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ctccggctgc cgccaccacc cgcgcggtcg gttggggctg tccacggaca cagcgcgctc 180

acgtctggca ggttgctgcg gggattcgcc gcgcgttcgt gtcttgctcg agcactagct 240

ctggcgggca ggggggatta acatataagg atgccggcgt ggacatagac gccggcgccg 300

agctcgtgcg ccgcacgcgc aggatggcac ccgggattgg cggcttcggc ggtctcttcc 360

cctacaatga cgattatctt gttgctagca ccgatggggg ggggacaaag ctgaagcttg 420

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<210> 28626

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-F7

<400> 28626

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acacatggac accgcctat tccacgcgga gactgttcac cccgacgagc ttgaccagga 180

gcttgacacc tttccactt tacggccatg atacgtcttg cggatgcggt tcgacaggct 240

gctcatcggt gccttgagga tccagaccgt ggtcagtga cttgctactc agggcgagcg 300

gttgagctca gtgctgagct ggacggaccc aatgtccacc ggctgttcg ttgacctatg 360

ctttgttggc gccattttgc tgtacgttac acccttt 397

<210> 28627

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-F9

<400> 28627

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cgctctaaaa ctgatggagc tagaaciaag gctgctcagg aggctttcag ggaactacag 120

agtgcccggc aggaggccct gcaaaggaaa aaggctgaaa agaagaaact catcgaggag 180

gcagatgcca aactaagcgc tgagtcactc cggaagaaaag aagaaaagga aagggtctcg 240

caaatgaaga agtctggacc caaagtgaag atgctccgct cttacaacg tcatgattca 300

agaatctatc atatcttggc ttttgetatt cacctgttga ttagcatata gttcagtgtc 360

tgctagactc atttatattc taatcctgtg agaatgagca aaaaggatcc aggagaaaag 420

aatccttact ggcgtttcgc ttttatttga t 451

<210> 28628

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-G1

<400> 28628

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gacgatggcg gctgtgctga acagcaggaa gacgccgag gtggtggccg tgctggtggt 120
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 gctggcgccg tgcacccctt acgcgacggg gagggccagc gcgctccctt cgtcgtgctg 240
 cagcggcgtc aagagcctca acagcgcggc gcggaccagc gcggaccgtc aggcggcgctg 300
 ccgctgcctc aagagcctcg ccaacagcgt caagagcgtc aacatgggca ccgtcgtcac 360
 catccccggc aagtgcggcg tcttcgtcgg attccccatc agcatgttca ccgactgcaa 420
 caagatcagc taagttacga cgaccaagct 450

<210> 28629
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-G11

<400> 28629

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 cagggctctgt gaaaacatcc ccattgtcct ctgcggtaat aaggttgatg tgaagaacag 120
 gcaggtcaaa gccaagcagg ttactttcca caggaagaag aatctgcagt actatgaaat 180
 ttctgccaa agcaactaca actttgagaa acctttcctg tacctcgcaa ggaagctggc 240
 tggatgatccg aaccttcact ttgttgaagc tggttgcctt aagcctccgg aagttaccat 300
 cgacatggct atgcagcagc agcatgaagc tgagcttgct gcatcagctg cacaacctct 360
 tctgatgac gatgatgatc tgattgagta gaaaggatca tgagtcttga acttgagcag 420
 gagttgtgcc ttgcgtgttt taagtggtc 449

<210> 28630
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-G12

<400> 28630

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 ctgccagagc cgccgccacc atcttctccc cagcgaggaa cctcttgctc tcaaccgtct 120

tgccaggctc ttcacgtccc aggctggaag tgatgggtggc gatacccaga agccctttat 180
 tgctttttgtc ttaggtgggtc ctgggagtggtg caaaggaaca cagtgcacta agattgcttc 240
 ggatttttga tttgcccatac tgagcgctgg tgatattctc cgacatgaaa tagcatctgg 300
 cagtgagaaa ggggagttga tcctagaaat cataaaggaa gggaggattg ttccgtctga 360
 gataactgtg gaactcatca gaaaagcgat ggaaatgaac aatgctaaaa gggttcttat 420
 tgatggcttc ccaaggtgtg a 441

<210> 28631
 <211> 231
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-G2

<400> 28631

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 acgggcacgt aactagctag ctagctagca gtcgtagaat gacgatgagg ggtctctctg 120
 ttgcggctgc tctggtcgtg gtggtggccg cggcctgcct tgccgcgccg cggggcgccg 180
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<210> 28632
 <211> 448
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-017-Q1-K1-G3

<400> 28632

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 gccagcggct atgcagcagc agatgcccat gccgccggcg cccgctgccg ccgcggcggc 120
 ggcgcccccg gcggccggca tcaactaccga gcagatccag aagtatttgg acgaaaataa 180
 gcaacttatt ttggccatcc tggaaaatca gaacttatgg aagttggctg aatgtgctca 240
 gtatcaagct caacttcaaa agaacctctt gtacctggct gcgattgctg atgcccaacc 300
 ccagccttcg caaaaccctg caggtcgccc tcagatgatg cagcctggta tagtgcctgg 360

tgcggtgcat tacatgtcac aagtaccaat gttccctnca agaaccccat taaccccaca 420
gcagatgcat gagcagcagc aacaacaa 448

<210> 28633
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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-G4

<400> 28633

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gtggtttaga aatatcacca tctttttttt gtgtgtgtgt ggatggagtt catagctgga 120
gttgtcctgc gagattgaag cgaggtgttc ctaggagcca gaaggggcac cgcattgggt 180
tctgatgtac gcacactaac ggtttctgaa atttgagcta gtaatctgaa tgaaatccaa 240
accgaataac cgatac 256

<210> 28634
<211> 500
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-G5

<400> 28634

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cggggtaaca agctatgtct cagtcattgtt gaccatgttc ggtgtgtggc acctgcacga 120
gaatctacgt ggtcagtgtg atcttagagc acgtcatgca tctcatgtcc ctgaacatag 180
atcatgtctc agtgagaaca tcagtgggtc atggcatcgt tgcgtgagca tcatcagtgc 240
ggcggcgggc accatctgga gctgggctct tcgtcgtcct caaggttccg gctgccgatg 300
atgatgtcgt acgcgccgca taacgagcac ttgctgcagg aacagacact gaacaacgct 360
cgttcggctc ctgagaagag gcagcgggtt ccgtcggcgt ataacagatt catcaaggaa 420
gagattcgca ggatcaaggc gaacaacccc gacattagcc acaggggaag ccttagcaca 480
gcagccaaaa actgggcaca 500

<210> 28635

<211> 454
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-017-Q1-K1-G7

 <400> 28635

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 gtgggcatgt agaaacggct ataattagct acaagcaggc tctccggctg cgtcctgatt 180
 ttcctgaggc aacctgtaat ctctgcata ctctacagtg tgtctgtgac tgggaaaaca 240
 gagatggcat gtttcgagat gttgaagaaa ttattagaag gcaaataaag atgtcagtac 300
 ttccaagtgt tcaacctttc catgccattg cttatcctat tgatccattg cttgctttgg 360
 aaataagccg taaatatgcg gcccaactgtt ccttgattgc ctctcgtttt gggctgccgc 420
 cttttgtgca tccacctcct gttcctgtaa aagc 454

<210> 28636
 <211> 318
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-017-Q1-K1-G8

 <400> 28636

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 gcgagaggaa ggaggaacag caggggcttc aaggtctaag tggccactgc cttgccaatc 180
 tagtgccgtt ttgctcgtgt cagctcaata ttaccgtttt ggtgtcatag ttgtaatgtt 240
 ttagttgtcg gaatctcgtg tcattatcgg atatcgaacc aatcaaattt cgctcaaaaa 300
 ataaaaatgt ttagaata 318

<210> 28637
 <211> 381
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-017-Q1-K1-G9

<400> 28637

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taaggatgcg aagtataggc gcagaaaaac catccatcct agagcagcat aagcctgctg 180

catttgtaat atattcgaaa tccgtatttt ttttcttcac aagcactact ctatatacga 240

tgaataaaaag ggcgacaata cagtgtcatc ttgtagccac ctaagatgcg aaagagaaaa 300

gaatgccggc tgttcaatgt tctgggcttg ttctgttatt gcttgctgctc tttcatactg 360

aacaagcatg gccttttgtg t 381

<210> 28638

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-H1

<400> 28638

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tgccatgtgt gatcgtctaa agcctatgct ctacacagaa ggaagctgca tcattcgcca 180

aggtgatcca gtgaatgaaa tgctcttcat catgagagga aactagaga gtaccacaac 240

aaatgggtggg caaactgggt tcttcaactc taatgttcta aaaggtggag acttctgtgg 300

tgaagagctc ctacgtggg ccttgaccc cacttcagct tcaaattctc ctgggtcaac 360

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<210> 28639

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-F11

<400> 28639

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ggcctgccat catatcgta cgtgagcccgg ccgagagcga gggagaggca tggctgctcc 120

gaagctcgcg acgctggcgc tggccgtgct cctggcgggc accgcggtgg ctcccccggc 180
 cgcggtgcgc gcggcgatgt cgtgctccac cgtgtacagc acgctgatgc cgtgcctgcc 240
 gttcgtccag atggggcggg ccatgccgcc ccagccgtgc tgcggctgca tgcgcagcct 300
 gcttcagcag gccacaaca ccttcgaccg ccgcaccatc tgcagctgcc tcaagaacgt 360

<210> 28640
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-D6

<400> 28640

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 ctcccgtggt accgcagcac cgtccctcag atggccatgg cggggttcct cccgttcagc 180
 gcgatctaca tcgagctgta ctacatcttc gcgagcatct gggggcacia gatttacacc 240
 atctacagca tcctcttcat cgtgttcate atctcatca tcgtcacggc ctctgtcacg 300
 gtggcgctca cctacttcca gctcgccgtc gaagaccacc aatgggtggtg gagatctgtc 360
 ctgtgcggaa gctcgacagg catattcata ttcttctact gcattacta ctacc 415

<210> 28641
 <211> 456
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-D7

<400> 28641

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 ggtcaaagtt ctctgggtta tctcttttga agcggtgagc cccccaaacc agcagtggca 180
 ccagctgcaa gtgtccacc tgttgagaaa ccatctgctg caaagactga tgcggccaaa 240
 caggttgctg ctgggggttac cagccaaacc aattactacc acagggctga tggtcagaac 300
 actggcaact tccttacgga ccgttcttca accaaggctc acgctgctcc tggcggtggc 360

tcttccctgg gctacctgtt cgggtggcaac tgatgcccggt gctggtgcgc tcaccaaagt 420
tattcttccc tgtctgctgc gtgctatgtc tgaatc 456

<210> 28642
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-D8

<400> 28642

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atgacgacac tggttgacac tggttgacaga gtggagtttg aaaaaggaaa taaaatacag 180
gatgagataa agaatctgct agagataacc taagtcatcc actgcaggta tgctcccaac 240
aatagcaagt actcaattca tattaaaatc caccctgtgg aattccatgg atggtggcat 300
tgtcctttct atcaacccaaa gcagatcact cgtggaacgg agtgagatcg atcttgaatg 360
gcttctttcc cttggtaact cgagcaattg caattaattc ctccaacagc tcttcagat 420
tgcgcaatgg ccattgagtt gggccatcgc atgg 454

<210> 28643
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-E1

<400> 28643

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gtgtgcacta aagggtccatc gggagaagaa tatgcatggt accagtgcac agtgaatggt 120
ggacgtgata gccgagctat aggagcatat gaactagcaa aagctgtgga agaattgggc 180
gcaggagaaa tacttcttaa ctgcattgat tgtgatggcc aaggttgtgg atttgacata 240
gatttggtta aaatggtttc tgatgctgtg acaatccctg tcattgagag cagtgggtgct 300
ggagctgttc aacatttttc tgaaattttt gagaaaacaa atgcttctgc tgcccttgc 360
gctggcattt tccaccggaa agagggttct atactagcag tgaaagagca tctggtcaat 420

gctggtgtgg aagtcaaggt gtagcagggg g

451

<210> 28644

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-E10

<400> 28644

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tgtaatcctt taataaagcg ttatgttttag gaagcaaagt agggattatga atagactgca 120

actaggaata gagaaacctt gctattggga gccatatggc atgacaccaa agtataatag 180

acgatttgtt tatatgaatt gctagaatgg tagagtgggc tagtttttag ttgtgaggat 240

taagctgtct tatgttcctg ttaggccaca gggtttcatt tgactggtag atcttttgtt 300

tgaaattaga cagcacatta gaactgtact gtgaaatgac tgtgccatga tgcccccta 360

ttcagtctaa aaataaatag ttgccccct atccaggta aaattatagt atatttggga 420

gtctctggca ct 432

<210> 28645

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-E12

<400> 28645

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tgggcgttga tattgattca ggtttaattg agactgctaa gtggaatctg cgaaggataa 120

tgccgcagga taaggtggct acaaacaacg tcaaagctca gaaatcatcg gattctctc 180

agagctctcc agaagaattg gcatctgagt tatcgaatgg gaacaagcac caagatcttt 240

ttaaaattgt ctcttttcga cgtgaaaatt ttgtagcgag tatggatgga tgttcagaac 300

aagatgacac catactatgt ttgagtgtga caaaaaggat ccacctgaac tggggcgacg 360

atgggctagt tacgttatat gtgaagatc 389

<210> 28646

<211> 464
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-017-Q1-K1-E2

 <400> 28646

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 gatgaagatc ttgaagaatc tgatgaagat tctgaggaga ggaatactgc atccctacct 120
 gaagaagggg aagtagggga attcgaagat gaagaagaca atgatgactc agtacctgat 180
 aacaaggatg aatcagagga aaaagagccc tggatgatcca aaagagcaga tgcaagggga 240
 gctgaacaat ggtaaaaatt tagatgctga tcaattaaag gaggctgatg ttgggtgcag 300
 tgatatgaaa aatgagaaaag acgatgttga tatcaaacag caaggcaatg atggagaggg 360
 tacggggtaa gttgaggaac ctgttcatga gatgggtggg gattgtgaag gaaaaagtac 420
 ggggtgacttc tctattgacc atgcaacaac tggggattaa aagc 464

<210> 28647
 <211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-017-Q1-K1-E4

 <400> 28647

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 caagcagcaa gttaaggatg ctaaatttcc tgatttagag gttattcgca tggtgtggga 120
 tgtgtcatg gaggctgttc agtgggtctgg gaagaaccag cagcaaaatt ccaatgcagc 180
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 cgaactggaa cttatacaca aagttcagac acagtgtat gaggatgcta agctgatgaa 300
 gctgtttccg gaaatcataa gaacactgta tgaccaagat gtcctagctg aagatactat 360
 agtccttttg ttccgtaaag gttcaaaccg gaaaggcatg caatcttttg tg 412

<210> 28648
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-E5

<400> 28648

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cgacgtcccc agcgccatac gggggcgccc cccaccggc gatgtcgaag acggccgagt 180
tcgtgggtctc taaggtggac gacctgatga actgggcgcg taagggtctg atctggccca 240
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acttcgaccg gttcggcgtc atcttccgtc cgtcgccgcg ccagtccgat tgcgatgatcg 360
tcgccggcac gctcaccaac aagatggctc cgccctccg caaggtttat gaccaaatgc 420
ctgagcctat gtgggttatt t 441

<210> 28649

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-E7

<400> 28649

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caggctcgtgc tgaaagggtc cagccagcgg caagtttgaa aggattggtg gccttggttg 180
taatgggtcg acgacttcct gggagaaggc ctcacggcg tgtttctttt tgccgtaatt 240
ttcagttttc gggttaagggt aggcggccaa ggaatttgat tttcgatcat tcctgcccta 300
tcatgcaaat ggccaactgc ttgcgactgg tttgcctac agcaagtttc cgtatacatt 360
tcttggtcgt aaagatcaca agttcatcga ccaacatga agcatttgc 409

<210> 28650

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-E8

<400> 28650

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 cgccacgata gtgaaggcgg ccaacatcaa ggctcagatc tactggccgg ccctcttcgc 180
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 agctgctcca gttgctgctg ccgcacctgc tgggtggtgct gcggctgctg ctgccccggc 300
 tgtcgaggag aagaaggaag aggccaagga ggagtctgat gacgacatgg gcttcagcct 360
 gttcgactga ggagaccctc tcaccagcc attagcaaat ttcacttggt ctgtcaaaga 420
 ctatcttgct ttatgttatg tctctagggc ttg 454

<210> 28651
 <211> 437
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-017-Q1-K1-E9
 <400> 28651

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 tttagaacac cagatgaagc tgatgacatc gactccaacc tacatgcctc atccgacctt 180
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 ctagctgttg atccatt 437

<210> 28652
 <211> 398
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-017-Q1-K1-F1
 <400> 28652

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ttggaggaag gcctacttcc gcttgagaca acaagacatg tctctatgat aactataact 120
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 gtaaggggtc gtgggtggtcg aggccgtggg cggggcatgg gcagagggtg acgtggaaat 300
 ggggttcaatg actatgctga tgccggttgg gaagactatc acgcccctgc atatatgggc 360
 aatggatatg cccgtggaag aggtcgtagt tttagggg 398

<210> 28653
 <211> 463
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-D5

<400> 28653

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<210> 28654
 <211> 87
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-B8

<400> 28654

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 atgggaaaaat ttaataaaat aaaaata 87

<210> 28655

<211> 118
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-017-Q1-K1-B9

 <400> 28655

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 ggaaataaaa taaaaaaaaa tgataatcaa aaaaaataaa ataaaaaaaa ataaagac 118

<210> 28656
 <211> 458
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-017-Q1-K1-C10

 <400> 28656

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 tgacgggtgcg tcgcaccgtg acgaacgtcg gccaccgtc ttcgacttac catgtcaagg 360
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 cgaaccagaa gctgacctac aaggtgacga tgacaacc 458

<210> 28657
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-017-Q1-K1-C11

 <400> 28657

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cacggatctg gaggaggtcg aggaggtcaa caagcagctc gatcagatgg gttacaacat 240
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 caaggagact gccgatgtta ttgcgaagct tggcttcaaa atgttcttgg gcgtgactgc 360
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 tc 422

<210> 28658
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-C12

<400> 28658

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 ccacagagct gccgagagtg tgctgtgctt tgctcatcga ccgaccgatc gatctcggca 180
 tggcggactg ggggccggtg ctgatcgggc tgggtgctctt catcctgctc tccccggggc 240
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 gcctctccat cctcgtccac gccgtcatct acttcgccct cctcggccatc ttcctcctcg 360
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 gctagctgct ggcg 434

<210> 28659
 <211> 452
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-C2

<400> 28659

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 ccgtattgat aatataaact ccttgagtga gattgactgt ggggagcaga aagaagcaag 180
 caagagacca tatgcagtcg aagatactgt tatggcgaga ctgaaagttt tgaagtctcg 240

tcctgacaat ataacctctt tgagtcaagg aagcactaaa caccagctag atggaagcac 300
aaacagtgca gataatgttg atgacactgt tatttctagg ctgggaattt tggagtccca 360
tcctaataat gaagccctat tgggacagga aagcagcatg cgacaactgg atccgagaac 420
aaatagagaa gatgggattg atgctgctgt ta 452

<210> 28660

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-C4

<400> 28660

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gcatgcacat ataccgctg ccctgatggt gacgatggtg agccgccaag gtgaagagtg 180
tacacgttcc cgttcatcca tccatcgtct ccttagtact gctgcccggg gattagtcga 240
tgaagagtga aggtgaaggc taccacacaca cacacatttg gtcgacgtac ccgccaaaat 300
ttgaattttt tttcttcccc cttctcccc cttctcttc cttctcattc ttttttcttt 360
tagttttgtc cagaaatcga aagggtgtgtt gatttgatta agttttttta ataccgtgcc 420
ccgtggtaat taaatatgta cgtacttata ta 452

<210> 28661

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-C5

<400> 28661

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gaggagatgg ctgctgctgc atctaataaa acttcatcca aacctggatt gaattatcct 120
gacctggaag aacaggccct tcagtttatc ttggactgct gtgaatctaa tatagaaaaa 180
tatacaaagt acttagaggg tggcgctggc tctccagaag ttccaatgaa tgcaaagcaa 240
gccaacagaa cattactgct aaaacagcta gcaagagatc tgtgcatcag tgaacggaga 300

atcctgtatc gcacacaata tatattgctg agaagattga tggacatgat aggcggcgaa 360
 cttagagctc tgtcactttt caacgggctg agaaaactct ttaaataaat ggatcggcta 420
 tcttatcttg gcagatctta ctggacagat tt 452

<210> 28662
 <211> 453
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-C6

<400> 28662

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 tctaacctgg cttccggcat ggcttccaag cagatcggag tcttgacctg cttcattgcc 120
 atcacgctc tcgccttccg tccctgcgca tccgcctgctc ccatggacgg tggctggctg 180
 aacggcgggc ccacctggta cggcccagcc aaggcgctg gatccgacgg tggcgctgtg 240
 gggtagcagg gtgcccgcga ccagcctccg ttctcgtcaa tgatcacctg cggcagccaa 300
 tccatcttcc aggacggcaa gggctgcggc acctgctacc aggtgaagtg caccggacac 360
 gcgtcgtgct ccggcagccc ggtgacagtg gtcacacccg acctgtgccc tgaggctgcg 420
 tgccatgtgg agcccgtgca ctttgacctg agc 453

<210> 28663
 <211> 137
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-C7

<400> 28663

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 gatggcaatt gggaattgta tgatttactt gccttatgaa taaagcttga aagaaacaaa 120
 ataaagatta gtattttt 137

<210> 28664
 <211> 461
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-C9

<400> 28664

ccccgatctc ggcgacatcg aagaggccca cagggttcggg ctctcggtga ttgccatcat 60
gatggccgcg tgcttgctgg agcccgggga caaccaccgc tacaacatgt tcccgtcaga 120
cactcacgtc aggatgcacg atgtcgtgcg cgacgcggcg ctccggctcg cgcccgccaa 180
gtggctggtc cgcgcaggcg ctgggctcag ggagcccccg cgcgaggagg cgctgtggcg 240
gggcgcgcag cgcgtgtccc tgatgcacaa caccatcgag gacgtgccgg cgaaggtggg 300
tggcgcacct ggcgacgcgc agccggcgtc gctgatgctc cagtgaaca aggcctgcc 360
gaagaggatg cttcaggcga tccagcattt caccaaggct acatacctgg accttgagga 420
caccggcatt catgacgcct ttcccatgga gatctgctgt t 461

<210> 28665

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-D1

<400> 28665

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tgctagcaac agcagtcgcc gccgatgggg gtggactact acaagggtgct ggcgctcggc 120
cgcggcgcga ccgacgacga gctcaagaag gcctaccgtc gcctagccat gaagtaccat 180
cccgataaga accctacgcc gcaggccgac accctcttca agcaggtctc cgaggcctac 240
gacgtgctca gcgacccgca gaagcgagcc atctacgacc agtacggcga ggaaggcctc 300
aaggccggcg cgccttcgcc cgccgtcttc acgcacggcg ccggcgccgg cgtccacagg 360
ttccgcttta acacgaggag cgccgaggag atcttctccg agatattccg cggcgggttt 420
gctggggcag gccccgtta cccc 444

<210> 28666

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-D10

<400> 28666

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gccacgcgtc cgcccacgcg tccgcaccgg tgatctcttc tgcgaaggcc ttccacgagc 120

agctgtctgt ggcggagatc accagcagcg cgttcgagcc ggcttccatg atgggtcaagt 180

gcgacccacg gcacggcaag tacatggctt gctgcctgat gtaccgcggc gacgtggtgc 240

ccaaggacgt gaacgccgcg gtggccacca tcaagacgaa gcgcaccatc cagttcgtgg 300

actggtgccc gacgggggttc aagtgcggca tcaactacca ggcgccaaca gtggtgccgg 360

gtgccgacct cgccaagggtg cagcgtgccg tgtgcatgat ctccaactgc accagcgtcg 420

tcg 423

<210> 28667

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-D11

<400> 28667

cccacgcgtc cgcgaatctt ccaaattctt tcccagagacc taaaattctc tcgacggatt 60

cgctgatct gacacgcgat ctctcggtc gcccaatgg ccgacaagga gaagttggag 120

tctgaagagg agtacgagag cgacctcgac gacgcacccc tctccgcgtt gcggcgccgg 180

gacgctgcga gcgatgacga ggacgaggat gaggacggag ggatgccctt gaggcggagg 240

aaggctggat ccgacgcaga ttccgacggg cagggcgccg ccgaggtgta cgacgaggat 300

ggcgcgtagc aagaaagcga ggagtacgat gaatacgagt gcgagaagga actcatggag 360

aagtccacaa tcgaagagac aatgtctgaa cttatggatg gtaagattcc tatgctgcaa 420

gttgaaga 428

<210> 28668

<211> 193

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-017-Q1-K1-D12

<400> 28668

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 gggaaaaaaaa aaaaaaaaaa aaaaaaaagg acaaaaaata cttaaaaaaa aaaaaaaagg 120
 ggcgcctggt ttctaggtcc caagcttcct aacgcgtcct tgcaacttat tatttttgct 180
 atggtgtccc caa 193

<210> 28669
 <211> 330
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-D2

<400> 28669

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 tgtttagttg gttgtaggaa ttttggtgtt gttgtgtaaa ttaccctca tccgtgggtt 120
 tccacagacc agaatgcatt ttccccgata atacattgaa gaaagtctc atgcaagcct 180
 ctttgtgggg gaaaaatgaag tcttagggat gttctgaaag tagtgactac ccatcatgtc 240
 ttttgtaaca ttacttaatg taagcatatc tgatataggt atgcaaaggc tccaatagct 300
 tccgtctgct gtatgggaaa gaaaggagac 330

<210> 28670
 <211> 446
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-B7

<400> 28670

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 agaagacagt tttctccaaa tgttaggtct ttgacatttt tctataacac ttcagcttaa 120
 atatgtactt ttttctttta atttgcgctg aacttgatgc taccttggtg acaagagcag 180
 atgtacgttt agtgcgatca ccaaggctgt ccgtatccca cggctgggct gttattttct 240
 tgtaatactg ctttcagatg taatgactat tcatttcttt ttccctggtac ggaataccgg 300
 tagttggatg gaaatcggca acagcattag ccatttcgga atagtgagcg cccaaattgt 360
 ctctgttttg ctgctttttg ccttcacgaa tatatacact agagatattt tgggtctcgtc 420

ttggcaacta acccgacgga aagtta

446

<210> 28671

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-D3

<400> 28671

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tgtttttttg gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaagggatg tagtaataaa agtacaaaag attatttaaa 180

catttcatga aaaattaaaa tattactaat atgttaatta aattaaataa at 232

<210> 28672

<211> 113

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-D4

<400> 28672

aaaaaaaaaa atgtgaaaaa caataaaaac atttaaaaac atacatataa aaaaaaaaaa 60

aaggggaaac aggcggtata aaaaaatata aaaccaaata taaaggcata ctc 113

<210> 28673

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-H7

<400> 28673

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catcactata tatatacttg gggtttgtgta ttgttagctc tagttctgca ggcgtatagc 120

gcgtttaatt cgacctatgt tatcgagcgc gcgatatatg tgccgatata tccagtatat 180

cttgaggagg gactagtggg tatgtgtagt actggactaa ataccctgca tatgcatgtt 240

ttgccagctc gctatgaatg tc 262

<210> 28674
 <211> 198
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-H8

<400> 28674

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 gtgttaggtg tgtggagacc ggccggcact atagagaact aaatcgaatg atggtgtact 120
 cagtacgtac tgacgtgtat gagtttgtgt tgatgtggac aacaataaag gcatgtgtac 180
 gcgtttgtta aaaaatat 198

<210> 28675
 <211> 146
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-H9

<400> 28675

cccacgcgtc cgggtcccct gttctgatcg ttctgttctt cacagcagca tccatatgct 60
 ggggagcctt tgaagcaagc tgcccctcgt gcacaggaga ctgccgtgca catcgagtac 120
 gttgaccgtc ccgtggacgc cgaccc 146

<210> 28676
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-A10

<400> 28676

cggacgcgtg ggcggacgcg tgggtccaag cctgcgacac ctaagccgac cccgcctacg 60
 gacactccaa gccctaagcc accggctacc aagcctccca cgcccaagcc gacccccgcca 120
 acgtacaccc cttcgccaaa gcctccgaca cccaagccga ccccgccgac gtacaccctt 180
 tctcccaagc cttcgacgcc caagccgacc ccgccgacgt aactccaag ccccaagcct 240
 tccacacacc cgacgccccaa gccgacccca ccgacgtaca ccccttcccc aaagccttcg 300

acgccaagc cgacctcacc gacgtacacc ttttcccaa agcctgcgac acccaagccg 360
 accgcaccga ctgacactcc cacaccgaag ccgtcgggtca ccaagccgcc cacctacact 420
 ccgacgccgt cgggtgtctta cac 443

<210> 28677
 <211> 477
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-017-Q1-K1-A11
 <400> 28677

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 ctgcgtaatt atcggttctt ctatatgttt gtattctcga cgacattgct ctgcctctat 180
 gtatttgcct tctgttgggt gtatgtgatc aagattagag ctgctgagca atcgtcagtt 240
 tggaaggcct tgctgaagac accagcatca gttgctctga ttatctactg atttctctgt 300
 gtatggtttg tgggtgggtt atctgtcttc catttatacc tgatgagcac taaccagaca 360
 acatatgaga atttcagata tcgctatgat cggcgcgata acccatataa caaagggtgtt 420
 ctgaacagat ttctagagat attctgcact ggtatcccc cttcgaagaa aattttc 477

<210> 28678
 <211> 413
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-017-Q1-K1-A2
 <400> 28678

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 gtgaattaca tctaagcatt tagctctggc gagtcaaadc attagtttta tacattcttt 120
 aattccagat atcagacgag tgcttttctt gaaaatacct gaagcacgca aacagttgct 180
 aatgtctgag ctggatagag tggctcagga ctacaagatc catcgcgatg agattcacag 240
 taaacttgtc cagatcatga gagagaggct gcttgcaa atcttagaaaat taccctaaat 300
 tgtggaaggc tggaatgccc cacaagataa tgatgtgcag ccgagtcaat ttgctaaagc 360

tggtacaaag gaagttacct atttgcaccg tatectttct caaacactgc ttg 413

<210> 28679
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-A3

<400> 28679

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tacggcgaga tggtcgtcct cgtccgcgac ggcgtcgagt tccacgtcga caagatcccg 120
tcagctcctg gaggtcatgt gaaaacaaaa ggcacaattt acctgtccaa ttttaaggatg 180
gggtttgtgg ccagcaagcc tggtggcaac ttctttgctt tggttttgcc actgtggttt 240
gtgcatgggtg agaagttcaa tcagcccata tttcactgcc acaacatctc tggattcggt 300
gaaccagtcg ttccagacca tcagaacagg gccctgtact caacttacac ctttcagatc 360
ctgttcaaag aatgccgctg tggaactttc ggttctt 397

<210> 28680
<211> 88
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-A5

<400> 28680

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tgtggaatac taaaaaaaaa caaagtac 88

<210> 28681
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-A8

<400> 28681

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tggccgtcca ccatcccagc gtgatggctg ggaggaccgc gcctgcccc tcccctcctt 120

ctctctcacg ccctactccc tcgcccgcgcc ttcattcccag atccccgtcgc tgattctggc 180
gagagcaggg gaagagtatg atgatgacta ttcgtgacag tgaattcctg ggaggtgggg 240
gagaaaagga ttgcgttctg tggaggttgt tgtgcttggt agaaggattt gttctctctc 300
ttttttcttt cttgtttctt tggccgtggt tcagtgcacac tgttgatgga tcccagtgtc 360
ttgcccgttt gatgcatcat ggtgggtggg gtgatgatgg atgacatagt ggtagggggg 420
gtgtgctagt tggtaatggg gtattt 446

<210> 28682
<211> 430
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-017-Q1-K1-B1
<400> 28682

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ggcggctccc acatcaacct taaggtaag ggacaggatg gcaatgaggt gttctttcgc 120
ataaagaggt ccaccagct gaagaagctg atgaacgctt attgtgaccg ccagtctgtg 180
gacatgaatg ccattgcgtt cctgtttgat ggccgcaggc ttcgcggcga gcagaccct 240
gatgagctgg agatggagga cggcgacgag atcgatgcc a tgcttcacca gaccggaagc 300
agcgttcta gcaccaccta aaagcatcag tcgaggagct ttgttttgct ctccgccctg 360
cgtagtagtt aacaaaatgg aaaaagtctt tttaaggaa ttgtgatgct ctggcttctt 420
gtgccattgc 430

<210> 28683
<211> 193
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-017-Q1-K1-B10
<400> 28683

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taacagcaaa ccaagatgga aaaagctcta tgaaggctta aaagagagca cgtctcatca 120
tgaatggcct attcatttta ttttgtgtat gtttcacttg ccatgctttc tgatgcatgt 180

tattccaaaa ttg

193

<210> 28684
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-B11

<400> 28684

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ggaaaaaaga ttgtctttga gagtgagtga gagagcaagc aggttgctag tagctgctgg 120
tagagagagc tagctgttac agccgaccag gtagctagat agctagccat ggagccgggg 180
tcgacgcccc cgaacgggtc ggcgccggcg acgcccgga cgccggcgcc gctgttctcc 240
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tgcctgccgc tgccggcggt ggaggggtgg ggcgtggcga cgcacacctg cgtcgtcgag 360
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attctcatct tctt 434

<210> 28685
<211> 200
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-H5

<400> 28685

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aggaaaaaaaa aaaataaaaa aataataaaa taaaaaaaaa taaaaaatTT aaaaataata 120
ataaaaaata taaaaatata aaaataaaaa aatgggctac ccctttaaat ttcccatgtt 180
tacattccca tattttcaac 200

<210> 28686
<211> 65
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-B2

<400> 28686

ttccccggtcg accacgcgtt cgccacgcgt tcgccacgcg ttgccacgc gttcggaccc 60
acgcg 65

<210> 28687

<211> 52

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-B3

<400> 28687

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaataaaaaa aaaaaaaaaa aa 52

<210> 28688

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-B5

<400> 28688

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ggagcgccca acctcccaat cgctgcccgc ctgcgcgacg cactccgccc cctgctgtca 120
ggcagcaatt ccaagaggga tactgttccg cttatcgagg ggcccacccc aaggcagacc 180
aacggctatg actgcggtgt ctatgtcatg gccatcgcca gggctttgtg cgcttggtgg 240
aagaatggcc aggaccaacg gggaggcgat tggttccagg cggtgaggag cggggtggac 300
gccacagcg tcgaggccat gaggaccgac ttgctgcagc taatcaacac tctcatccaa 360
gaaaaggcca atgccaaatt cgacacccat gggcgacact gaccaggggt ca 412

<210> 28689

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-B6

<400> 28689

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tgcattgggaa attagttcat ttttccttgg gaaattgaaa atcccataga aaaatgtggt 120
 tgacaaacta gcctttatgt gtgtatggct agttttcttca attcgtgagt gcgtggtagt 180
 accaataagc aataagacgc agaggggatcg atcaaaaaaa aaaataaaaa aaaaaataa 240
 aaaaaaata aaaaacaaaa taaaatataa taaaattaaa aaatttttaa aaatatataa 300
 tct 303

<210> 28690
 <211> 377
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-F1

<400> 28690

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 tgaacaggtc aaagatccta aggagccagg ctccggctgga gatgccctgg aggagaagga 180
 agacctgttt tggcgtcaag ggttggttaat cattcagacc atatcatcatg gtgccgtgga 240
 agctcttccg tcaagcttaa ccttgcggaa gaaattcttg gagatactaa acagtgttga 300
 cttggcacat tctgatgagt taaaactaga agtctctggat gaccttaaga gagatttctc 360
 ttatagcgag gactact 377

<210> 28691
 <211> 366
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-016-Q1-K1-F11

<400> 28691

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 cgctaccaag gtcgagatcg tcgagatcga cctcaccgag gaagacgctg gctcctcggc 180
 ccacggctcc tccccctcgt ccccatcgat cgaggtggtt gggatccggc gcctggagga 240

ggccatccac ggcgtcatgg tgcgccgcgc cgctcccgat tggctgccct tcgtgcctgg 300
 agggctctac tgggtgcccc cgctgcgcct nccgcacgag gtcaccgcgt ttgtcggccg 360
 gatcgc 366

<210> 28692
 <211> 337
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-F3

<400> 28692

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 ccttgagcgc gcagcctgcg ccacgcggga agcagcctcc tcctgcgctc ccctcgatca 180
 aactcccga gttgggtcac tggggcgctca tgcagcctcc tcagcacggg agcgcttcgg 240
 cgtcgtcgtc cgcgtcggcg tctcggcccg tctacagctt catgccggct ggtccggttc 300
 gcattgacag accccggatc gggatcaagg ccgacga 337

<210> 28693
 <211> 232
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-F4

<400> 28693

ctcacgcgtc ctcccacgcg tccggccacg cgctcgtcca cgcgttcgac cacgcgttcg 60
 gccacgcttc cgacactgca gtctccaaac gtccagcact cacagtgcac acaattggtc 120
 cgtgcttctt tcgtgtgcca catctgaagg aggatgaaac cccaccctaa ggaggaactc 180
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<210> 28694
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-F6

<400> 28694

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accatacatt gaagtggatc taagtgaagt ggatgtagga cagaaattgc tgatgcgtga 180

tctgaaagtt catcctgcgt tgaagctgct tcattcgcca gatcagccca tttgtaacgt 240

taccggatca aggtcttcag aatagaataa gggaaaataa cctgcttctt tgtatgagct 300

gttttgagca caataaggtt atggtttctt acttgagtga attatgtgct tacttgttct 360

actgttagga tgaattgggt ccagagacac ctattttaac ttatggatgg gatcttttga 420

acctgtatat tcttct 436

<210> 28695

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-F7

<400> 28695

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tcaaagccga gagccaattc aacatagagg gcctctgtgc agcctgggtc caaaatctgc 120

agccacagca acatctgcag gtatcagatt tgtatgacaa ggatttgcaa aggatgtcct 180

tgtcttttga gaatatctag acagcatggt tcagcatgca tggaacagag aaatagcaga 240

aagccgagtc aatgaagcct aaataaatac aatatttctt cacagattca tttgaaggct 300

atgttgatgt gtgttttacg taagtacatt ct 332

<210> 28696

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-F8

<400> 28696

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agcactcttg agattcccca cccactgggt gtgatgattc tttggacaga gatgtgaaag 120

atcaatcgcc acgccggcgg cccgtcgatc gcaccacccc cgccgcctgt tgtagccgc 180
aagatcgccg gctaccaaac gcggtgcatt gcattccccc ggtatattct cagatcagac 240
ctgaattcgt cttcctctca agcgagaggg ggaaaaaag acctgtaata tcatttggat 300
cgccattata tttgtagctg attatatata aatatataaa atatcattcc tcgtattcct 360
gtc 363

<210> 28697
<211> 249
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-F9

<400> 28697

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cgttctgtta accgaaacaa gaactctgtg tattcctgta ccgagctgtg catgtttttt 180
tctttccatc gtggagaatt taagttatta tccgtttgct gcaaaaaaaaa aaaataatat 240
ttattttatt 249

<210> 28698
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-G1

<400> 28698

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cctctacaac atccactcct tcaaacactc gggtttggcg aacaagaaga ctgtgacgat 180
ccagccagct gcaaaggact cggctgtggt cctctctact accaagacca agaagcagaa 240
cgcacctgcy aagctcagcc acaagtctgt gatgcgcaag gagttccgca agatggccaa 300
ggctgtgaaa aaccaagtta gtgacaacta ctacaggcct gatctgacca agccagcttc 360
tgctaggcta aactcgggtg accgcagtct tcaagttgcc aagtcgggtg tcaaagagaa 420

gaacag

426

<210> 28699
<211> 157
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-G11

<400> 28699

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cggcaatagg aggtcataat gggaagccaa agcagaaggt ctcatacatg gcggaacggg 120
ttgttggtac tggttcgttt ggtatagttt tccaggc 157

<210> 28700
<211> 168
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-G12

<400> 28700

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ggctgcttac agtacgtagt accatggcta agaaagtggc cactctgctg gcccataacc 120
ttcttttctt cgactacgtc gactcatgca gctgcagggt cagcggat 168

<210> 28701
<211> 277
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-G2

<400> 28701

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gggctgtctt cgtccatcac agctggcgta ccatggcagg atatactgtt tgcggtagaa 180
tatcacagta gcagctaaac tagtacttct ggagggttcaa acctgacggt cgtcttctat 240
tctaattttc cattcatcgg ttcatttatt tatgatg 277

<210> 28702
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-G3

<400> 28702

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acggcctcaa gtccctcgag gctcacctcg ccggcaaac ctatgtgtct ggtgactcca 180
ttactaagga tgacattaag gtcttcgccg cggtgccgtc gaagcctggc gctgagtttc 240
ctaagccgc ccgctggtag gagaccgtct ctgcggctgt agcctcaaga ttccctggta 300
aggctgttgg tgtaaactctg cctgcgggat cagctcctgc ggcagctgct cctgcggatg 360
aggctgatga cgatgatgac cttgatcctt ttggggatga aact 404

<210> 28703
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-G8

<400> 28703

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gaggctcagc aggccagctt cccaggaccg aagctctgcc cggttcgcca gtccaggaaac 120
tctgctctcc cggggccaga gatccaaaca aatctctgcg ttgggggttct ccgggggttcc 180
ttgcgctgga gggaggtttc gttctcgccg gccatggttt ggctgagaag aaacagcagc 240
atattgatgc gaaatctctg agctttatga agatcgccac tcacctgcgc cggttctggt 300
ttcttcactc cttcttggtc gttttcctct actgggggta tgt 343

<210> 28704
<211> 232
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-E9

<400> 28704

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tcggcctctg aagaagccac agttcagcgc tactttctct atctcgacc ggatcttcag 120

tgtcgcgctg ggagttgcca tcatatccgt cccactcgac accaagttca gcctgatgtt 180

tggcgtttga gagcgatttg ctgcgatctt atgaggatct gcatttcccc gt 232

<210> 28705

<211> 93

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-H10

<400> 28705

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ggatgtctga ttttgatcac aaagcattgc tag 93

<210> 28706

<211> 418

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-016-Q1-K1-H11

<400> 28706

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tgggtcctct tgcgatagaa ggccctcctg ctgtagagca aaatcctgcc caaggattga 120

atgctaataca aagtccagct ggtgacttgg cacttgctac ccttgatgat cagtccaact 180

cagttcagcc aattgtcaac gtcgaggaga agtttcatat tttgtgcaca aaagatagtg 240

gggtgctgta cgaggatcct tacatccaga ttggcttgaa agcngagtgg cgtgccccatc 300

atgggcgact tggtcttttc ttgggtacaa aaatacttca gcccttacgt cagtgcgggc 360

gctgatttgg cttctagtca tttgaaatgg aaccttctgc agtcctgata ctattcct 418

<210> 28707

<211> 181

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-H2

<400> 28707

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gtcgggcctc ttcgttggca tcaacaaggg tcatgtcgtc accaagcgcg agctgtcttc 120
tcgcccgtgc caccgtatgg ggaaatcaac gaatagggtg tctatgggtc tgtgcctgat 180
c 181

<210> 28708

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-H3

<400> 28708

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ttatgttcag acaatgggtg accagagggg ggcttcaatt caacagcagc ttgcatcttt 180
gaaacttaaa gatgcgccgg tcattgggtgc ttttaatcct gtgaaggagg agatagtcct 240
cgcacaattt agcgtttaca aactcctgga acagagctat gattgttaat ggacctcggt 300
ctgttgaatc tccggacgac aagtttgaag tattctatat tg 342

<210> 28709

<211> 205

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-B9

<400> 28709

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ataaactttg cagggaaacaa gaccctggcc ggtagctgca tctgctgcat tagggacacg 180
catgagatga tcaacgtggc ggcca 205

<210> 28710
 <211> 143
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-016-Q1-K1-C1

 <400> 28710

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 gggcgcgcca agggcgggcaa gggtttgggc aaggcgggcc ccaagcgcaa cctaagggtc 120
 ttgcgacaaa cattcaaggc att 143

<210> 28711
 <211> 283
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-016-Q1-K1-C10

 <400> 28711

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 cgcatcaaag ttcttcaagc tcaggatgat ctagtaaaca aaatgaaaga cgatgcgatg 180
 aaggaactcc tccttgctcag ccacaaccac catgaatata agaacctttt gaaagatcta 240
 attattcaag gcttgctccg ttgaaagag ccagctgtat tgc 283

<210> 28712
 <211> 58
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-016-Q1-K1-C11

 <400> 28712

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<210> 28713
 <211> 116
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-016-Q1-K1-C12

<400> 28713
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 ctgccgtggg atacataccc tgcgaatata actagaccat gcttgcttcc gtctaa 116

<210> 28714
 <211> 122
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-C2

<400> 28714
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 taaaggcatg aagtggcacc actgattgag caagcttttc aaatacattt tgaggaacag 120
 aa 122

<210> 28715
 <211> 255
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-C4

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 aggttcacct gatgatacag gagataaagt gtgtgctgtt gcatgggctt ctaacattgg 180
 cagaccatat gatattatcg catttgcgac ctgcaaagga attgcaatct ggcatatatg 240
 tttgaacgct gattc 255

<210> 28716
 <211> 177
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-C6

<400> 28716
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agaaggcggtt gatttttcggg tcgccaccta gtactagtaa gacatgcagc ttcaattgga 120
ggaccagcaa ctaccatata aactcaaata gcgctggatg catgaacttc tgtgcca 177

<210> 28717
<211> 195
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-C8

<400> 28717

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agtctgctca atgcccttca gcttcgactt cgagcagcat gcattatctg aagaacagtt 180
gaaggatctg atcta 195

<210> 28718
<211> 161
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-C9

<400> 28718

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gcgcgcctcg aggacccggt accgatcact agcagcatgc acagtgtcat ggaatcctca 120
ttgacttacc gacagatcca tatacatcta gtactggttg a 161

<210> 28719
<211> 130
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-D10

<400> 28719

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caacgggggg atcatgatgt atctatagca gcctatcaca caccaccatg caacaccgcc 120
accgcgccac 130

<210> 28720
 <211> 285
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-016-Q1-K1-D12

 <400> 28720

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 gcaggcgacg catgcgcggg cacgacggct cgtggccccc actacgtatt cagctaaccg 180
 gtctacgtct tcggcccttc tctgtcgcc cgattgagtc gctgctgcaa ctgctaactt 240
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<210> 28721
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 <212> DNA
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 <223> Clone ID: LIB3067-016-Q1-K1-D2

 <400> 28721

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<210> 28722
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-016-Q1-K1-D5

 <400> 28722

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 ctaactcaaa tagtggattt tggacaacct attgtcacta gttatagata tatttacagg 180
 atgtcaaaca tctttcacc c aatcacacta ttaaacctca aaaaaacacc caaagccctt 240
 aaccatttcc cttgcctcgg tcttgaatgt atttgcctt aaaattacag caaacaatca 300

atcccaagtt ttcaaaatga caggtcatat taattatatt catgaccctg ctcttttate 360
tagttgtatt ggcatcaatc gatgattcag atgcagaatt atctgaagtt gtgattgatg 420
ttgtttcaca tg 432

<210> 28723
<211> 59
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-D7

<400> 28723

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<210> 28724
<211> 74
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-B7

<400> 28724

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tagatcgagc gccca 74

<210> 28725
<211> 223
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-D8

<400> 28725

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ggcagcagca gcaggcgccg tcgccgccag gctacccgac ggccggctgca ggcttgagc 180

aagagcaggg aggcaggaag ggacgacgcc cggagaagac gac 223

<210> 28726
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<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-016-Q1-K1-E1
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 ttccaaaatg gataaaaggt cccaagctag gagactcctt cccagcctt gtgttttttg 240
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 agtccctgca aatctcaa atgcagactcag tcatcaccat cggttcagaa ttccttgga 360
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<210> 28727
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 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-016-Q1-K1-E11
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 ggacgcgcc caggacgccg tgctgcacgc tgattcaggg gctggcgg 168

<210> 28728
 <211> 239
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-016-Q1-K1-E12
 <400> 28728
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 tatgatttag atgcggggat cctttaataa agcggttatgt ttaggaagca aagtagggta 120
 tcgaatagac tgcaactcgg aatagagaaa ccttgctatt ggtagccata ttgcatgaca 180

ccaaagtata atacactatc gtgttgtagt aattgctaga atggtagtgg gggctagtc 239

<210> 28729
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-E2

<400> 28729

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ctgcgtccgt gtgaagcagt tgttcgagaa gctcggagca tgctacaagg ccattgagtt 180
ggataaggaa agtgatggag ctgagctcca gaatgccctg aaggagtgga ctggacagaa 240
gactgtccca aatgtcttca tcaatgggaa gcctattggc tgctgtgatg atactatggc 300
actgaaccat tgttgggaaa gctgggttcct cttgctgact gatgc 345

<210> 28730
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-E3

<400> 28730

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gatgctgtca ataaggatcat caagggttac cagaaattca gtgcaacacc caagtatatg 180
gtgtacaact agagagtgtc ttcattggaat atgttgattt tagaactccg ggatcttttc 240
ggtgattgtg tcatcgtgag gttctatgca aggattgttg tttgttttga aatctggatc 300
cccatggatt gcattctgta ccacatgttt ttaagacaag gtttttcccc tt 352

<210> 28731
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-E4

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 taataagagg cagcagatca agcaaggatc aaatccccac tgtgcaacta ctactgctga 180
 agcacatgga tcaaaatgga ccaagtatct ggacacgagc cgttttggtg ggaggaaatg 240
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<210> 28732
 <211> 381
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-016-Q1-K1-E5

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 gttgcgttaa acgatcgaca aatcgatcgg tagaatgaat taatgggcca gccagcagag 180
 tgtgatctca ctatctgatg agtgatagga tgtactccct ctgtccggag atccagtatt 240
 aaattaaatc caccagtgga aacaataaat acatcaacga gctagcatag acgatccaca 300
 ctacacaagc gaagcgaatc tgctgctgat atcgctggcg acgtgcatct tatctagcag 360
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 <213> Zea mays
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 gggtcctaga aaaaatctaa aata 84

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 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-016-Q1-K1-E7

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 cgctgacctt gtctacttct ggcagaagta ccggaattg gcagacagct tacatgagaa 180
 aatgaagct cggagggagt tgcttgaagt gatggccac aggtctcatg ttgacagcag 240
 tgttgagctc attggaagcc ttctctttg 269

<210> 28735
 <211> 282
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-016-Q1-K1-E8

 <400> 28735

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 ggcagcgagg ggcgaggggg gctaatactg taggcggagg aggaaccgag ccgatggggc 180
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<210> 28736
 <211> 243
 <212> DNA
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 <223> Clone ID: LIB3067-014-Q1-K1-H2

 <400> 28736

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 aaagagggt ccgccgtcc cggggaagag cgcgccattg ccgccgccg gctgactggg 180

gaagatgggt gtccaggagt tcacagttga tctcaacaag cccctgttt tccaggtttg 240
cca 243

<210> 28737
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-H4

<400> 28737

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cccacaggtt cgcgatctgc gccggccgcg ctacactatc tacttgctgc gttgttcgct 180
cgctgtctgt gctgcgcat gcagaccgtg tcgagcatag tcgggctggc ctggcgttcc 240
agtacggcgt gcttgtgctg tagctgttga cggggcattt cccgggcgcc gactgctagc 300
tcgtgcgctg ggctcaagac cccggctcct gcgtctttct gcaccggat ggtgg 355

<210> 28738
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-H5

<400> 28738

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tatcttttat ttgctcttgt ttggaattgg tggaggcttt tgaactgtaa tctggtgcga 180
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gctggtatgt gagctaacca gtgttcagct ggtgggtgag ctgaccagca ctttcgtttc 300
ggctgttctt tctgatgtca gcgttgtag cctaggttgg ccatcggtat ttatattact 360
aatagcatct atgctaccgc ttgaggtttt catggat 397

<210> 28739
<211> 58

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-H6

<400> 28739

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<210> 28740
 <211> 231
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-H7

<400> 28740

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 aaggatggga aggaggttaag ccgagtgggt ggggccaaga aggacgagct tgagaggaag 120
 atccggatgt tcacgtcatc ttcctcatcg taaactcctg tggttcgcct gggacggagt 180
 tgctgaagtg aaatgggtcc cttctctgaa tgctgtatat aaatatttaa t 231

<210> 28741
 <211> 192
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-H8

<400> 28741

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 ctgatacctc agcgtcttga gtgctgataa cgtgattagg ccgtttgctg agaagcacta 180
 cgccgatctg gt 192

<210> 28742
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-A11

<400> 28742

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gtacctggga tggtagaggt tgtgagaagt ggaatccagc tcaatcgaca atgctgcaag 180
ttcttgtctc cattcaagct ctgattttga atgacaagcc atattacaac gagccaggat 240
atgagtccta tgccaacact ccgaatggag agcgggtggc tttggactat aatgacaaca 300
cctttctgca ctcatgcaag actatgttat actcacttcg gaagccttca tagcaccttg 360
cagatcttgt tgctggccac tttcgggtgc atgggcacac g 401

<210> 28743
<211> 97
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-A12

<400> 28743

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ccttcgttta acaacgtgta gacggggaga accgtgg 97

<210> 28744
<211> 275
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-A3

<400> 28744

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acttctaagt cccctcaaca tgggtactttt cacattatgc aacgcatgcg actgaaagtt 180
cgcttcatcc tagactattc tacacttcat aactcactc ctattcatga tcatgtagtc 240
aacaatctca aagccgggta ctagagagaa ttttt 275

<210> 28745
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-A5

<400> 28745

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 ccttagcatt tcatgcaaag atgttgctgg agagaattgc ttcgatgaaa atagtgtctac 180
 tgctctctgg gctggtgttc ttagcgatat acacctggaa gttccaccgt tgcaagaggt 240
 ggtacatcct ttctccatgt atttccttgt accgggtgac tactcgctcc aagctgcttc 300
 tgttataatc gatgccacag acgttcttcg tgctcgtgca aagggtgaa tcaccagatg 360
 aacctatact gggttccgga ttccattcc atatccgggt agtcggttca gcattagcag 420
 ttcttttagt tactc 435

<210> 28746

<211> 224

<212> DNA

<213> Zea mays

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<400> 28746

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 gagcgcccag tcgcccacca ggatgaagtt tgttgctgcc tacctgcttg ctgtcctcgc 120
 tgggaactcc agccccctctg ccgaggactt gacagccatt ctggagtcag ttggctgtta 180
 agttgacaat gattagatgg aaactccttc tttcccaact tgat 224

<210> 28747

<211> 243

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-A7

<400> 28747

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 cttcttcgcc ttccgcgacg catgcggctg caggtgcggc ggatcctgcc ctagtccagg 180

cggcggtggc ggtggcggtg gaggatctgg tgggtggtgt ggtggaagct gtgggggtgg 240
gag 243

<210> 28748
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-A8

<400> 28748

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tgcatgccg tcgcacaaga cctttcggat caagaagaag ctggcgaaga agatgcgcca 120
gaaccgcccc atccccctact ggatccgcat gcgcacggac aacaccatca ggtacaacgc 180
caagcgcagg cactggcgcc gcaccaagct cggcttctga gcgcgcggat cggccggctc 240
ctgcgtcgga attctagggg ctctaccttt cctttggttt tatcgatgtc tcttgtgttt 300
ctgtaagcta gcaaacagtt tcagaaa 327

<210> 28749
<211> 136
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-A9

<400> 28749

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tacggcggag ggactagtgg aggaggcacc ctattgcggg gaaccagctt cgccacgcca 120
caccgggct cgcat 136

<210> 28750
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-B1

<400> 28750

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 tttgaccttc tcttgtgagc cttcgccgac tcatgcggct gcaggtgcgg cggatcctgc 180
 gctatcccag ctgcggccta cactatctac tagagctgaa gcaatcctta agtgtatcaa 240
 cgggtcatct gttacatatt tgagtctttg ctattgatgg tttatctgcc aagttatttt 300
 tatttggtct ttttgtggtt actaggattt cttttttaaa tgtattttat tttgatttct 360
 ttaatatattt ttttcc 376

<210> 28751
 <211> 230
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-B10

<400> 28751

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 ggagtgaat ggcttcaaata gtaaccttcc agtcaaggta tgtgctaata tagaaactta 180
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<210> 28752
 <211> 159
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-B11

<400> 28752

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 tatgaaaaga gagcgaagat gatacaaaaa aagggggggg 159

<210> 28753
 <211> 228
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-B12

<400> 28753

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tggcagtggc aggctccatg ttcccagggc tagcgacctg gttctcaatg tagtgacatt 180

tgtgatggat ctaggggtct ctttgtcgag tcatcccata aattaagt 228

<210> 28754

<211> 191

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-B2

<400> 28754

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agcagcaagg ggagcgggga gcggcaaaaa aaggcaacc acggaaccga gagacgcacg 120

agcagcacia caaaaaagca gagagacaga caacacgcag aaacaacagg caaacagaaa 180

caacgagagc g 191

<210> 28755

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-B3

<400> 28755

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tgagcaacta aaggcgttta ttgatattgg tgatatatta ggtgcaagtg gatccattaa 120

aaagacagag aaaggggagc tatctgttta tgtgaaaaat ttcgaaattc tcacaaaatc 180

attactccca ctaccagata agtatcatgg attaaactgat gtggacaaac gttatcgta 240

aaggatatgtt gacatgattg caaacctaa ggctgctgat gtattccgaa ctagggcaaa 300

agtggtttct gaaattcgca agacaatggg aatcatttgg gtttattgaa atcgaaactt 360

cagttctaca gggagcaaca agtttgt 387

<210> 28756
 <211> 320
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-016-Q1-K1-B4

 <400> 28756

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 gctcatgctg gtgcgcaagg agatcgtcga cttccacggc gagatgggtc tgctcgagaa 180
 ctacagcgcc cttaactaca caggattggt taagattctc aagaaatatg acaagagaac 240
 tggagccctg atccggctgc ctttcattca aaaagttctt tagtagcctt tctttaccac 300
 tgatcttctg tattagcttg 320

<210> 28757
 <211> 388
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-014-Q1-K1-H11

 <400> 28757

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 atggttgtaa gtattttggg agtcactttg ctttgcta atgtctcgtgta agacttattt 240
 ggtcaatggt cggttattaa cttattacca tgaaagcact ttttctgctg ccctaataagg 300
 tttagtctca tttgcatttt tactaattta atttttgttg attttttttg tgattccatt 360
 gttaaatctc atggtttaat ttttttat 388

<210> 28758
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-016-Q1-K1-B5

 <400> 28758

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 aatggacttg aaatcgctac tataaaccga gcgatgggta ttgggtcccct gctgcagcct 180
 aactaaata ccagtgtga agcaatcctg aagttaatca atgggtcatc gtctacatat 240
 cccaattttt gctttggatg gggttaatgtc aaaggatttt gcccttgccc atatccttgc 300
 atacgagggt cctcatcaa atggaaggta ctgcatgggt gaaagagttt gtcactactt 360
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 tattttatttt cttttt 435

<210> 28759
 <211> 343
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-014-Q1-K1-F2
 <400> 28759

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 agaaaaagca agacaaaatc gttgctcctg ccaaaggaa tgatccgtga aaatggggaa 180
 ttgttcatga tagtccgttc tctgcttctt ttttttttc tcttctctc tcagttgttt 240
 attataatcc ttctattagt atataagtcg atctcttcta gtactgctag gaataggatt 300
 agtgcctgc tttattttcc cttgggttct tctggaaagc ata 343

<210> 28760
 <211> 412
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-014-Q1-K1-F3
 <400> 28760

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ttcgtacttt cctgcacgct gttgggcaat gttagaacaa cgcaggcctt ccagacagcg 240
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 acctccaaga aactggatgt cttcgccatg gctgtataca aggtgaagct tgtctggcct 360
 gaatgtgaag agcacgagtt tgatgctcca gatgactcct acattcttga cg 412

<210> 28761
 <211> 231
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-F5

<400> 28761

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 gccccgtggg aattaattat gtacttactt atatataat atacattact ccgaagagga 180
 tggagcactt tgtataatag aggaatggtg atcgtactta cgggtgtggg c 231

<210> 28762
 <211> 297
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-F6

<400> 28762

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 tgtacacatt atatatgaat gaaacatatt cattaactta agcatactcc tttttttatt 180
 taatgagttg atattaatta aatatctgtt tttttagatt tttgcaaagg tttcatttac 240
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<210> 28763
 <211> 341
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-F7

<400> 28763

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gaatacagac gcacccatcg tggatagagc ctgtcttgca caagtttctt tgtccccggt 120

gccagtctat aaaacaataa gagaaactaa gtgttaagtc atgggtgtgtg tgctgtggaa 180

aagaacaacc cacatacact taaggtaaatt atatatttgt ttagaagtac atttgtaatt 240

gtatcagaac caaacaacta tgcagttctg tttgaatgga ttccaggaca aaaaggaaaa 300

tttaaatttc aggaccaaac agccaacaat tttaggacat a 341

<210> 28764

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-F8

<400> 28764

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tccaagtcca cctccaagtg cgctaccgtc ggtatccagg gcatcgctg gtccttcgga 180

ggaatgatct tcgcgctcgt ctactgcacc gccggcatct ccggaggaca catcaaccca 240

gctgtgactt tcgggctggt cttagccagg aagctgtccc tgactagggc cctcttctac 300

attatcatgc aatgcctgtg tgccatctgt ggagctggag tgggtgaagg ctttcagcat 360

ggactttaca tgggcaactg tttgttgccc aatgttgctg cacctggct 409

<210> 28765

<211> 84

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-F9

<400> 28765

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gtaaaggagg aacacggatg agtt 84

<210> 28766
 <211> 407
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-014-Q1-K1-G1

 <400> 28766

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 gcttacacat ctggacaaca ggcagctttt catcaaatca gaccctgggtg aagttgttaa 180
 acctgaccaa ttcaaggcga tttacgatga ggggatgcc aattaccaga ggcctttcat 240
 gaaggggaag ctgtacattc atttcacggg ggagttcccc gactcgctgg caccagagca 300
 gtgcaaggct ttcgagacag tactttcacc aaggccttta ttcaagctga cagacatgga 360
 aattgatgaa tgcgaggaga ctactatgca tgatgtgaac aacattt 407

<210> 28767
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 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-014-Q1-K1-G10

 <400> 28767

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 atacgagaag acactcatgg tatctagctc ccagatcgaa atgtagccga ccgacaaggt 180
 tgatgggtga acaatgggta tagataatgt gcttgagcag gctctgtatt gagcttacca 240
 acatgtcctt atacatggac gaaaggtatt cagcgatgtc tccacattag acgaggattt 300
 agggactgac aataatgtcg ttgttataat gctcagacag aacaagggt catcaagtg 359

<210> 28768
 <211> 268
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-014-Q1-K1-G11

 <400> 28768

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 cataatcaac attgtataaa ttctcacaga cgaaacgaga accacacacg tgaaattttc 180
 cgatgggagt tgtgggttct tgtatcgagg ggcaggtcca ggatttaaag gatgggcatt 240
 cggaaaaaat attttatata tttttttt 268

<210> 28769
 <211> 370
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-G2

<400> 28769

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 ctectctctg tgtgctgtcg atttgtgcgg cgactgttag tttggttcgg tcccatcctt 120
 ctgttgatca atggctgacg gtgaggatat ccagccactt gtgtgtgaca atggcactgg 180
 aatggtcaag gctggctttg ctggcgatga tgcgccaga gcagtgttcc ctagtatagt 240
 cggccgccct tggcacacgg gtgtgattgg tggaatgggc cagaaagacg cctatgtttg 300
 tgacgaggca cagtcaaaaa gaggtatctt gacctttaag ttctccattg agcacggttt 360
 cgtgaacaac 370

<210> 28770
 <211> 62
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-G3

<400> 28770

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<210> 28771
 <211> 342
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-G4

<400> 28771

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tcgagaagga cgccgttctt tgaataccat gcctttcgta tacactttgg actctggtgg 180
catggttttt ttttatactc ggtgtttttg tctggatagc cacttgattt ggtccttaaa 240
atgtggtttg cctaaatgct tttatcatgt gggtttattt aactggcctg ttaatggta 300
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<210> 28772

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-G5

<400> 28772

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caaggccagt ccagatccgg cggtgcggc tctggctgcg gtggaggctg cggcagtggc 180
agcatggtcg ctgaaggctc caacggcggg cacgccaagt ccggcggctg tggctgcagt 240
tgcggtggcc gaagtggctg ctgccgctga tgctgttgca gtggttgag cacctgtcc 300
aacgcatgat ctgtgttgag tgggtgcatt tg 332

<210> 28773

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-G6

<400> 28773

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atgcaagcaa ggatatctac gagaaacacg taatctcata tactgtactc tgtgtaactc 180

acggcttgac cttggagaag ataagatgac tctggagttc ttactagaac ggttggccaa 240
 tgcacatatt gatcactttg acag 264

<210> 28774
 <211> 231
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-G7

<400> 28774

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 gtaatttatt tggtatccgt gttgagccgt tgattccttt cttttgttct tcttcttttc 180
 accatttggt tttctttcat ccgatatcca tattccattc ggctttctat t 231

<210> 28775
 <211> 339
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-G8

<400> 28775

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 gtatattctg taacagacaa gcctggaaac ccactcagg tgaaatgtgc cagagtaaatt 180
 tgaaagggga tcatttatga tgtgttctga tgcaatccta atgtggtgaa tggggaaaatt 240
 cttttctgtg gctcttcaac tgggggtctta actctcatct cgtgctgact tcttgacctt 300
 tcagtttaac atggagctgg gctgtcttta cgtcaacct 339

<210> 28776
 <211> 192
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-F11

<400> 28776

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cggatttgca acggttatga cacagtttga gccactgtgt ctgctactgt taactcgaaa 180
cctatcttct ag 192

<210> 28777
<211> 257
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-G9

<400> 28777

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acgaattcta ataaaaaagt tgtcaactac aaagattaat aacttttgaa gttctacaac 180
ttttattttg acactttttt catcatccga tgtaatttgc aaatatttga attttaaatt 240
tgacatactt attttca 257

<210> 28778
<211> 281
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-H1

<400> 28778

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gggccgtgag tcatgaggcg actaggagaa ccatttctgc agccaaggga gccctagaag 120
cccagcggt agcagccgga ggagggcttg atgatcatct tgctccgtct gatgcgttga 180
tgaactgtcc gttgtggctt aaccagatgc ttctgaaaaa cccagatatt tgacggacga 240
agtgcccaaa ccacagacac ttggacctgt acatacccat t 281

<210> 28779
<211> 300
<212> DNA
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<223> Clone ID: LIB3067-014-Q1-K1-H10

<400> 28779

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cgcttgccccg tcgtgaacca agccgggttt tgtaaatggt gggtcgagtt taaacccatg 180
gtgtggtcgg atcgggtgtat gagactagtc gagaaatatg aagggggaaa aaacttgtac 240
agcaatcttg tgcttgcggtg gttggatggg agcccagcat gctgcatgca tctgtggcac 300

<210> 28780

<211> 412

<212> DNA

<213> Zea mays

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<400> 28780

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gacttcaaga cggatctgcy gttccagagc cagcccgctc tggccctcca ggaagccgctc 120
gaggcctacc tcgtctgcct gttcagaggac accaatcctt tgtccatcca ctctagcgc 180
gtcaccatta tgcccaaaga cattcagctt gtcgctcgca tccgttgca gcgctcgttt 240
tgcttttttg cgcctgcct ctttttgctc ttgaggattg tggttgtctt tttttattct 300
ttatcttggt gtttctttta gtcttttggt aattatctat tttttttccg gttttatatt 360
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<210> 28781

<211> 226

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-D11

<400> 28781

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ttttccctt ctaagttcct agcatgactg tttgggtcag atcagatcag ctggggaaaa 120
caaaactggt ggggttcttg gcatctttgg tcgtagcagt cagttgattt aatgaactcc 180

gaaaaatgtc tcatggagga aaatTTTTtg tgcctgtgt agcgct

226

<210> 28782
<211> 132
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-D2

<400> 28782

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ataaatgttt atataaaata taataattat aaaaaaaaa attaaattaa ataaaaaata 120
aatttaatta ta 132

<210> 28783
<211> 470
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-D3

<400> 28783

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tgtctctcta gctattgtgg tatttaccat tgtgccttgt gatgctctgc tttatgtcca 180
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<210> 28784
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-D4

<400> 28784

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 gctcgatttc aagaacgcct tctgcacgg cgccctcacc gagaccgtct actgctgtca 120
 gccggtgggg ttcgtggact cctctcgccc tgacatggtc tgccgactca acaggtccct 180
 ctacggcctc aagcaggccc ttggggcgtg gcactcctga cttgctacgt tctgggtgac 240
 cctgggcttc gtggaggcct agtcagacat gtctttgttc tgttccatt atggaacaga 300
 gactgtctac ttgctttctt acgtggatga cattgtcctt actgtcttca tgtatgtctt 360
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<210> 28785
 <211> 246
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-D5

<400> 28785

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 attgcaggcg tagtacgtac ccagcagcag ctagcactag cagtccatcg gagcgacgat 120
 ggtgagaagg acggtgctgg cggcgctgct ggtggcggcc gccctcgccg gcggcgcgcg 180
 ggcgagctc aaggaggggt tctacgacta ctctgtctca caggcggaga agatcgtcta 240
 ggacta 246

<210> 28786
 <211> 176
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-D7

<400> 28786

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 gagaattttc tggagtcttc gactcgagca gggttccgat ggcgctgcaa tggatgatcc 120
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<210> 28787
 <211> 251

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-014-Q1-K1-D8
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 tttttatatt t 251

<210> 28788
 <211> 269
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-014-Q1-K1-D9
 <400> 28788
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 atgatacaat agatgaggta ggcgcaggac atgatccatt catggatttg aaagcgagat 180
 tcatggactt taaacagaga aactatgtgg aaaaattttc aaattaccaa accctggctg 240
 agcagcaaac accaaagtgc atggtgggtt 269

<210> 28789
 <211> 358
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-014-Q1-K1-E10
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 ggaagtacgc tatcaaggcc tatgattagt gaaagaacag cttttatcct atcaagtttc 180
 tgtccataag tttcttgtgt ttgatttacc tttcatctat ctgttattct atggtatggt 240

taaatcta atgttttatt ttttcacttt tatatatattt ttttttttta gttttttttt 300
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<210> 28790
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-E3

<400> 28790

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 cgtgcaaattg gcacccattg ctttcgatca ttaattcagc ttttatgctt gcttctgttt 180
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 ttcttagttt attttcgtga atttttaatt actttttggc tcttgtgatt ctaatatatt 300
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<210> 28791
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-E4

<400> 28791

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 aaccgtacta gctgtagctg ctgaatcgtt gagtccccct gctgccactc ttatcttcat 240
 ttgtgtcatt gaaactccgt gctttctctg ctgtgtgaaa tctgacggct ttgcgtgttt 300
 tggacactga ttgcagtt 318

<210> 28792
 <211> 389
 <212> DNA
 <213> Zea mays

<400> 28794
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gctctaaggc atggacggca aggacctgga ccgtctcatc atgatgggtct acaagggtca 120
atcgcgcccta tgacttttta g 141

<210> 28795
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-E9

<400> 28795
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atgaatggaa ggaggatatt cttccagaga tactggatgg tcacaatgtt tgccgtttttt 120
ctggatccag atattcctgt aagggtgtgat tagtttgatt gggttgtaagg gcttttttctt 180
gtttaacatg ctgcatatat ttctttctat tatttatggt tattatcttt tttattacct 240
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<210> 28796
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-F1

<400> 28796
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gatgtctgca ctgcaactcta caatgctagt ctatctactt accaaattat tgtgaaatag 180
tagtatatat ggctcgtgatg gttgtatctc tttttggatt ggatgtatgt caagctgggtg 240
gggtgctagtt cgtctgtctg gacttggttac tagttaatat ctcataatac atatataaaa 300
gtggatctta aaaaaaataa tttttt 325

<210> 28797
<211> 406
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-D1

<400> 28797

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tgTccggttc aaatggaatt ttctgatgat gctgagaaga catttggcaa tgctttgtct 120

tatttgctga aacatgggtat ggttaaggac ggtaaggagg ttgcacttgt tcaaagtggT 180

aaacattcca tctggagatc acaatcaaca cacaacattc aggtgaggaa gatctgatgc 240

ggaacgcaca tagtattctg attgTtgag gacatcgTtt cttctagcaa accgcaaggt 300

cttgTtacaa tgaaacttca ctggtagtaa gtactggTat tggTgagata gTtggtgctg 360

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<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-F10

<400> 28798

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taactggaat attgtctgaa cagcaacgct tgatttgtcg tgggagagtc ttgaaggatg 180

atgaactctt gtctgcttat catgtcgaag atgggcatac attacatctt gTtgTtagac 240

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<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-A7

<400> 28799

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<210> 28800
<211> 226
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-A8

<400> 28800

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gtttcagttg atattcgata caagtttctt cctcttgaga acttatttga gtctgtgcct 180
tgtagttggc tatggattct tgccttactt aatcactgtg gattat 226

<210> 28801
<211> 172
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-A9

<400> 28801

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taaagtcaaa gagatacaca agacgaggct gactccagag ctaagatgaa cgagcatgca 120
aatacacctg aataattctc agcaaaaatt gtatctgcat atacacggcc ag 172

<210> 28802
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-B1

<400> 28802

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aactgcgcga agaaagtggc cgatgcggct gtgaaagccg gcaggaccat catcgactgg 180
gacagcatgg ccaagttgct cgttaccgac taggctcgca aggagttcgc cgtccttcga 240
cgcgctttct atgacgtcaa ccaccatctt cagaccaagt tctttcatga accccagccg 300
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<210> 28803

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-B10

<400> 28803

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gacaggactc aaagccagcg ctaaccttgg aagcattaac aagttggctg aaagataagc 180
ttgctccata caagattcca acaagactat acttgtggga ttctcttcct cggaatgcca 240
tggaagaggt taacaagaag gagctgtaga aattgttagg agcttagcca tgtgtataga 300
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<210> 28804

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-B11

<400> 28804

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gaaaagatta cacaaagata gaataggtgc tccatatttt agggagcctg gcgaattccc 180

aaagctagaa gagtctttct ttgcaaatcc cttgcctggc tgtatatgtg agcaacatag 240
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<210> 28805
<211> 303
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-B2

<400> 28805

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tcagtagtcg ccgttacaag tttctttccc ttgagaactt agttgagtcg gggccttggg 180
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ttt 303

<210> 28806
<211> 211
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-B3

<400> 28806

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caccgagcta gcagctcgct ctgtcctgca acaatggccg ctgctcctc ctcccagcag 120
ctggtcgcgg ctgcggctct ggcagcggcg ctgctgctgc tggctgctgg ggccgggacg 180
gcttctgctg ctgtgagctg ctgcgaggtg a 211

<210> 28807
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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-B4

<400> 28807

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aaggggttgt ctggaatgga tgttgtgtac aaggtggatg ctgatggcct ttat 114

<210> 28808

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-B6

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tgtgtacctg cggtttgata gtataacagc cgctatgagc gcacagaaag cactccatgg 120

aagatggttc gcagggaaga tgatcacagc aacttttatg accccacaac agtatgaaat 180

caagttcccc agctagtgaag cagatgcatg attaatatgg acgtagtgtc ttgggctcgg 240

tgggtgctgg catttctata ttttagcgtt ttgagcttgt gtcaacttat tactggaggt 300

tattataaaa aaaaactagt ggaggaaaat ttagtggaag ctagtgtatc gggtaatggc 360

ttacgataaa tgggtgaagg aatgagtttc tagtcctgtg ggtagtgct tgaattgaaa 420

ctgtactgtg tattggaatt tttacctgta gtgctttttc 460

<210> 28809

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-B9

<400> 28809

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tgcatatata catgtaactg gcacacatga gaaaattaaa ggtagctagc tagagagtct 120

tgtgaagggt agccattccg ttcctgtttg tgaaaagggt aaaaagcta gctttcactt 180

cacacatgag agaagaagct aaggagaaga ggtacaggct gctgtgggtg ggttcgatgg 240

taggtgagac atcacaatgc tatgttagat atggggctcta ttccatct 288

<210> 28810
 <211> 262
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-014-Q1-K1-C10

 <400> 28810

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 gccgcctaaa ttataatggt cggagagtaa acagtcgatt aaactttgac atggtgagcg 180
 actcattggt agctggtagt ctaggccagc caaatggttg ttctacttcc ttggatcctg 240
 catctgcatt tagcctcctt tt 262

<210> 28811
 <211> 298
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-014-Q1-K1-C11

 <400> 28811

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 caccatccc catccgccgc cgctgccatg gccgacgaga ttgacacgag gccggcctcc 120
 gcgggctccc gcggccgtcc tgcgcacgct accgaggacg acgacagaga ggagggcgag 180
 atcgtcgcct acgccccctc gcctgccctt ctgctcgtgc acccgctcga gcactcgtgg 240
 accttctggt tcgacaaccc gcacggcaaa aacaagattg cctcctgggg gagtcca 298

<210> 28812
 <211> 292
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-014-Q1-K1-C12

 <400> 28812

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<211> 54
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-014-Q1-K1-C6

 <400> 28815

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<210> 28816
 <211> 368
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-014-Q1-K1-C7

 <400> 28816

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 tggaagatcg gctacggttt caacctggct gtccttctga tcaccatcgt caccctggaa 180
 gtctgtctct ggacgaggtg gaaaaacagc accggttcca cgggggcata ttagctactt 240
 accgattttt ataggtgttt gtgatgggtca gtgaatgagg ttcgtatact tttgttcgaa 300
 tatttttgcg tgtatgcagt tgctgtaatg tccgcgatg ctgcgtgatg tgttttcctt 360
 ttggtgca 368

<210> 28817
 <211> 279
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-014-Q1-K1-A6

 <400> 28817

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 tgacgaggcg tcgctgctgc ggatgctgat caagctgatc ggctcgcggc ggacgctgga 180
 ggtgggcgtg atcacggtct actcgttgc tggcgacggc tctggcgtg tccgcctact 240
 gcaaggtcat cgcattctac gtgtgcctcg agtactact 279

<210> 28818
 <211> 327
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-014-Q1-K1-C8

 <400> 28818

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 tcatgctttt ataggaagtc cctctcggcc caacactaga ttgatataca gagaatttcc 180
 actgtggcct cccgaaccaa gccctcttcc actgctacca ccttccttcg ttgtaccgg 240
 attatttcgt gttaagatca catgtgatcc taataattaa aacgtgagtc tgtttatcat 300
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<210> 28819
 <211> 369
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-013-Q1-K1-H10

 <400> 28819

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 agagacactc gtcccccgta ccgtggcgga tgcagacgtg gtggttacag gaatgttgag 180
 tttgctgatg actctgagag gccaccacgg agaaactatg agcgccacag cgggactggc 240
 catggctatg agatgaagcg tgatggcgca tggcgaggga actggggcac tgccactgat 300
 gaacttattg cccaggatgc ataggactct tcgaagatgg aagatgctgc tcctggtgct 360
 gagaaacaa 369

<210> 28820
 <211> 457
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-013-Q1-K1-H11

<400> 28820
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 gcgctacgac accctgcgcc tgccgcacaa ggctcgtcgcg cgggaggccg acggctccgt 180
 caagttcggc cagggcgagg gctccgccta cctcttcgac ccggacatct acaccgacgg 240
 caggatctcc gtgcagggca tcgacgccgt gctcttcgcg ccggacgacg ccaaggccac 300
 gcagaccgcc gacccaaca ggaagcctcc cgccatcgtc acccacaaga agaagatcaa 360
 gctccggcga ggtagtagtacc tacctacctt cagatctgga cctttgctcc tttgtgtcct 420
 actcgtacca ttacagattg ctcaaaagta tcccacc 457

<210> 28821
 <211> 345
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-013-Q1-K1-H12

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 actagcaaca cttatgccac gaactacact actgactcca gctctttacc gagtgcctta 180
 ccagatgctg agccagcggg tgatttgccg cttggacggg ccaagtctcg tgcctagact 240
 gaatcattca ttgtattgat ccattgcgatg taacctgcgg gacaagctat cgaactggag 300
 gcctgagtga acgcctgagc tcgcgcttca actcattcta aaaca 345

<210> 28822
 <211> 305
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-013-Q1-K1-H2

<400> 28822
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cacataataa agaagtagat catgcaccca ctagtgatca cttggtctag tgtcccttcg 180
 ttcaatgtcg tcgtcgtcgt cgggtacctt acgtgacatg ctgtagcacg tacgcttgca 240
 gagcagcacc gtaatgtcct tgggtatgct ttgctggctc tatgaatttg tctttgtgtt 300
 gcttt 305

<210> 28823
 <211> 434
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-013-Q1-K1-H5
 <400> 28823

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 agcccgctgc cgagaaggcg ccggccggga agaagcccaa ggccggagaag cgtgtcccag 180
 caggcaagtc cgccggcaag gagggcgggc agggaaagag gggccggaag aagggaaga 240
 agagcgtgga gacctacaag atctacatct tcaagggtgt gaagcaggtg caccggaca 300
 tcggcatctt ctctaaagcc atgtccatca tgaacttctt catcaacgac atctttgaga 360
 agctcgccgc cgaggccggc aagctcgcg cgtacaacaa gaagcccacc atcaccttcc 420
 gtgagatcca gacc 434

<210> 28824
 <211> 441
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-013-Q1-K1-H6
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 atgtatactg ccacatggcc aagagagggt agaaaaatag cgtctgattt actggctaac 180
 ccagttcaag ttaacattgg aaacactgat cagctagttg caaataagtc aattacacag 240
 catgtggaag ttatcccaca tatggagaaa tcaagacgac ttgatcagat cttgcgctca 300

caagatcctg gatcaaaaag cataatatatt tgctccacta agaagatgtg tgatcagtta 360
gctcgaaacc tatcacggca gtatcgtgct tctgctattc aaggtgataa atcacaggct 420
gagagggatt ctgtgttgaa t 441

<210> 28825

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-H7

<400> 28825

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caatggacca cctgattttc gaagtcaaac tcagtaccaa gggcatgtaa atccagctgg 180
gcaagggtcaa gggtacaaca acccccaaga gcgtatcaac ttctcgcaag ggcagggagg 240
aggttttagg cctgggtggc cttcagcacc tgtgtcttat ggccaaccat cagcacctgg 300
atcttatggc caacctata cacttggtta ct 332

<210> 28826

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-H8

<400> 28826

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tgaagaaagg gagctgaagc ggaagcaagc ccgcgtcaga gccacgttcg tgcaggacct 180
gctgctctct actctattcg gcgactgatg acgaaccaga gcgagcctgg tattatcact 240
ggaagggtgca gagttgatgt gggcgtgatg tatctttcta agttattgta agccggtctc 300
tgtcttcaca actgacgata tgtgtgtggc acgcaccacg cagcaagtc gcggttgtgc 360
gtgtacgtct gaactctgga gcattgggtt gtt 393

<210> 28827

<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-H9

<400> 28827

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tttggacaac ggtggcaaat ccaataacca aatatgcatt aactattatt ccattggcta 120
tgagtttggga agagctgctg ccaccaaacc aacaaaagta ttctacaata atcatgctta 180
gatcatctct ggtgatatca accctcctga ttgctctatc tgtgcctttc tttggacttg 240
tgatggcctt ggttggttct ttgtttgcca tgcttgtgac ctacattttg ccttgcgctt 300
gttttttggc gatcctcaag acaaaagttg ggt 333

<210> 28828
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-A1

<400> 28828

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tattcccaga agcgtatata gcaactcatt gttgctccat tacactatgt tcaagagaaa 180
ttgccaacaa tagagtcaac agagacaacc aaggaggatg caagtgcacg ggaatctgat 240
gaaattgaag tttctagtgc aacacatgat tagaaggctg aagcaataac tgatgattca 300
aggcaaac 309

<210> 28829
<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-A11

<400> 28829

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agccccctcg ttcccaagcc cagtggaaac acgttaaatt tcaggataac caagctaatt 120
ccatgaagga accaggaacc ggtgggtatg gctatgggac gaaaaatgac aagaataagg 180
atgtggatac aatagcttcg gacttcatca agctgaagca catggcttgg gcacttcata 240
agagcacaac catgtaccaa ctttctacct aaaggtgtca atagttcaag atgttgatac 300
tatatactta tgcttgtctc tgtatagtct a 331

<210> 28830
<211> 92
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-014-Q1-K1-A12
<400> 28830

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gctgcacgct gatccagggg ctggcagacc tt 92

<210> 28831
<211> 459
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-014-Q1-K1-A2
<400> 28831

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tatttatggt atttattctt ctatttggtt tatttattta tttttttttt gttttaattt 420
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<210> 28832
<211> 384
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-A3

<400> 28832

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ggcgactccg cgggcaccgt cacggccttc tacctgtcgt cgcagaactc ggagcacgac 180

gagatcgact tcgagttcct gggcaaccgg acggggcagc cctacattct gcagaccaac 240

gtgttcaccg gcggcaaggg cgaccgcgag cagcggatct acctctgggt cgatcccacc 300

aaggagttcc actcctactt cgtcctctgg aacctttaca tgatcgcgtt ctctcgtggac 360

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<210> 28833

<211> 473

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-A4

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ctactttccc ctgccttggt aagggaaagg gttttgttca cgatgttacc ttgtaacctt 120

gtacttatgt ttcatacttg gaatgaatgt tcatggaaca aaaatattca aaataatata 180

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<212> DNA

<213> Zea mays

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<400> 28834

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<210> 28835

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-H1

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<210> 28836

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-F12

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442

<210> 28837
<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-F2

<400> 28837

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cgtatcatct gaaatgggac aaacaaatta catcaggagg taggttgctt tatttttgtt 180
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tgtagtagaa gctgaacaac tgagtgatat tatcaaagtt tggatgctga gctac 295

<210> 28838
<211> 317
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-F3

<400> 28838

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ctccccaagt ggtccgacgc cgacgtcgac gagttcatcg cctccgaccc ggtctacggg 180
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gcgaccgggt tcggggc 317

<210> 28839
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-F4

<400> 28839

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ggaggaacaa aatgcaggaa ttcggtgaca gagattcgat tctgagtaat tactcaaccg 180
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<210> 28840
<211> 316
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-013-Q1-K1-F5
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gtggtcaagg tgatca 316

<210> 28841
<211> 369
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-013-Q1-K1-F6
<400> 28841

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catcttccgt aagaaggaag tggcctgatc tcagatttca aaagtagtca gtgctggatg 180

aagaatggtc tgcgaatgca agactcgatg gtacgaatga aaacgatgcg cttggattcc 240
 gtgaaggaac gattttctttg tcagcacctc agaatttggc cacttgatag aatctgatgc 300
 ttgaagtttc ctggttctgt gtacacaagt cgtcttaatg tcagtattga gccgtttgaa 360
 atattttta 369

<210> 28842
 <211> 354
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-F9

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 cctgccttcg ctctctctct ttctgtaccg gtgctgcaga tgtgaggctg ttgagatgga 180
 gagaaccctt gcgatgatca agcccgatgg tttgtcaggt aagtacacag aagcaatcaa 240
 ggaggtcatc ttggattctg gatttcatat cgtaaagaa accgagggtc agcttgatgc 300
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<210> 28843
 <211> 354
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-G1

<400> 28843
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 tgtatctcca gtactacatc aacgagaagg gggacaaggt ctacaccacc aagaaggagt 180
 cacctcttgg ggtgccaaag cagtctgtc acccagctcg gttctcacca gatgacaagt 240
 actctcgcca gcgatacctg ttgaagaaga gatttggact tctgccaaag cagaatccag 300
 gaccgaaata ctgaagcttc aagtcaactg tccaaccctg cgaagttctt tttt 354

<210> 28844

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<213> Zea mays
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cggagaagtg atctgagtgt tcgtcgagct gtagtcaggt gattcgattc cagcacggtt 180
ccattttaca cggatgaatct tcagtcgagc ttgtagtttc ttgggtttgt gattgttaaag 240
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<210> 28847
<211> 324
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-013-Q1-K1-G2
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gacccatcat tggagacaga tcttgatttt gactcggata ttcgagatga tgtccaagat 180
gagtgttcca agtttggtgc agtgaagcat atttttgttg acaaaaatac tgcacgcttt 240
gtgtatctgc agttcgatag cgtgactgca gcatcaaag cccaaaatgc cttttacgga 300
agatggttcg ctgggaagat tatt 324

<210> 28848
<211> 168
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-013-Q1-K1-G3
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ccgtatcaaa agtatcgagg taaaaaagg aactagtcta cttttgtgca gcaccatctg 120

ttagcttccg agagataagc tgcgcatttt cgatctatatt atagggcat 168

<210> 28849
<211> 244
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-G5

<400> 28849

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ttatacactt ccagtattac agtcaggggt tcatctgtaa gcgcacacaga tgaaccttgc 120
caaaagcctg ctgtctactg gttgggatgt ctttagaatc cgctccttta gttattgaaa 180
cagttatgac ggcattgttct tatggtcacg tatacagctt tgacttgatt acaagcttaa 240
tgga 244

<210> 28850
<211> 454
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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acagttgcct cgggcgatca acatttgaca ttcgagttga aagagttcgt caaggaacat 120
ttgattgata tccaaggac tcaggctgcc ccacctatgg caatgggtcca gccacagttg 180
cttactgcag cacctgccac atacaatgac cctgggtgcca tgcttgctgg attgctatga 240
gaagtaaaaa aacaaaagcc atagtgtttt gatgtacatg acagatgttg atctaaccac 300
tccaaaagca tcttgctgcc aagacgaaca cgtggagcaa cgaaagggct ggcggagtag 360
tcttcagctg gattctaaac cgagaaaaag ctagattcct ttgggcgggt tgaaggcctt 420
cttccccctt atggagcagt ccccatattg tgta 454

<210> 28851
<211> 245
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-G8

<400> 28851

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 ttaattgata ttccaaggac tcaagttgtg tcacctatgg taatgggtcca gacatatatg 180
 attactgtct ttaccttgta tcatacaatt accttgtttt atattctttc tcttatctgt 240
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<210> 28852

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-G9

<400> 28852

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 aggaatcaac tttggtggac tatattgttt tctgcaccaa agaccatgtt caggctgaaa 180
 agatgctaga tcttctacag tcgattttcg atgttgtggc cgatatgttt gttcttcata 240
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<210> 28853

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-E9

<400> 28853

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 ctccctcgtc cggggcccca gacttcgggc agtcgccgac gccgtcgccg tcaaccctt 180
 cgggatcacc ggcagcaacc cggagccaga ccagcggcgc tccagcgccc tccctagcgc 240
 gttccgtcgc tgccggcctc tcggcaccac cactggcctt cacctttctc gctgtcgtga 300

ctcttttggg tgtccggatc ttgtgagctg tgctcattta ttctatttca tgcgcttcgt 360
 ccgtaccatc ttacccttag tctgtcctct tatcattgtc tttgttttgt ttcttgtgag 420
 ctttttcggt tcgttttttt acctctgttt tt 452

<210> 28854
 <211> 357
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-D10

<400> 28854

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 ggagtcgctg cagtggcctt cacgaacaag agcctagtct ctcggcacgc atcgctacgg 180
 gtctgctcgt cgaggctctc gatccgtatc ctggctgtta aggctgcaac tgtcgtcatc 240
 tcaaagtaca cttcactgaa gcctctggga gataggggtgc tagtgaagct tggtgccgca 300
 ttggagaatg acagttgggtg gctttttgct ttcttctact gtccagacta aacctta 357

<210> 28855
 <211> 348
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-D11

<400> 28855

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 cccgtgcttg attctccggt ggccagccct gttgcggcca acagcaactt tgtgggggttc 180
 agttatgtga ggcccgcacc gttccttcag aagccgagtc ctcttggtta aagaactact 240
 tccgtgatct gatatctacc ccatagttca aataactatc tttgagtcgg aatcctatgt 300
 atttcttcaa gacattagtg atgggaatct aaccttattg ttgtgttg 348

<210> 28856
 <211> 151

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-013-Q1-K1-D12
 <400> 28856
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 aggtgtcgtg ttgaagaact gccttgagag aagagatttc actagctatt cctcgaatat 120
 gaccttgcac gattctctca tgtcgaccta t 151

<210> 28857
 <211> 378
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-013-Q1-K1-D2
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 cacttcgtcc gcgagcgtgt cgctgccggt gacgttcggg ttctcagcgt cccaccatg 120
 ctccagttcg ccgacatctt cacaagggg ctaccgacga gtgtattttt agaatttcga 180
 ttcagtctca acatctgtac aggacagagt tgtgactgcg ggggtgttag actatccctt 240
 tgtaatgggc caggcccaag tactctaata tatcaataca acttcaacct tggttagggt 300
 taggttttgt cacaatccaa catttagttg ttatatattg ctttttggct aattctaata 360
 attttcttga tgatttca 378

<210> 28858
 <211> 397
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-013-Q1-K1-D4
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 ccagtggatc tgggaacaga atcgaatgtg atgcatacat ttgaacttcc tatatcattg 120
 tctgctttgc aagaatttgg tggagccaag ggctgtttg atggttacat ggcaaggagg 180
 cagaagatag aagcttcaat ggggtacaag gtgcctgaca acgatggaag gaggcattgct 240

ttaaccttga gtgtgagtga ttacaaaagg cggcggagtc tcctctgaat ggtatctctg 300
attgtgctgg acgcctaacg gattcaacta tattcctgtc gtctgcacct atgtgcattt 360
gctgggacaa ttgtgcagat catttgcaat ttgcctt 397

<210> 28859
<211> 130
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-D5

<400> 28859

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tcctcagcct ccgcgagagg aggacgaggg ctctctttgc cggctgctgt tgtggtgcta 120
ctgttggtg 130

<210> 28860
<211> 298
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-D6

<400> 28860

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gcctgtggaa cgccgacgac tgggcgaccc gggcggcgcg agaagacgga ctggtccaac 120
gcgcccttcg tcgcctctac cggcttccac gtcacggctg caggcctccc ggggcgcgct 180
ttgcgcaccc agggcgcgcg ctgtgggacc agccggagtt caggacctc gacgccgtca 240
gtaccgtcgc ctggccgact taggcgcctg tcaccatcta caactactgc accgatcg 298

<210> 28861
<211> 169
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-D7

<400> 28861

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gggcctgtgg aacgccgact actgggctac ttgtggctgt cgcgagaaga cggactgggt 120
taactgcct tttgtgtct atctacttcg gttttcactt tgactgttt 169

<210> 28862
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-D8

<400> 28862

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cgatgacctg ccgtacccgg acgccaagcc catggcggtg cacgccacac tgtgggacgg 120
cagctactgg gccacgcgca agggcgaggt caagatcgac tgggtccagcg cgcccttcgt 180
cgtctcctac cgagactaca ccgtcaacgc ctgcgccgtc gacggccgga acggggggcg 240
cagctcgtcg tgccccgccg gtgccaacga gtggatggac aggcagtccg acgacaccga 300
ccgtcttata gtggcttgtg cgcgcctgaa ctgcttgacg tacaac 346

<210> 28863
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-E1

<400> 28863

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gctgatgcca atggtgatgt cactgcagtt aagctaaagg atggcacagt acttgaagcc 120
gatattgttg ttgtcgggtg tggaggcaga ccattgacta ctctcttcaa ggggtcaagtt 180
gctgaggaga aggggtggaat caagactgac gcttcctttg aaacaagcgt tcctggagta 240
tatgccattg gtgatgtggc taccttcctt ttgaagatgt acaatgagtt gaggagagt 300
gaacatgttg accattctag aaagtctgca gagcatgctg taaaggcgat caaaggcaaa 360
gag 363

<210> 28864
<211> 370

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-013-Q1-K1-E10

 <400> 28864

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 gttcagtgtg cgcaacattg ggaagactct cgtgtccagg acacagggta ccaggattgc 120
 ctctgatggc ctgaagcaca gagtctttga ggtttgtcta gctgatcttc aggggtgacga 180
 ggatcaggct tacaggaaaa tcaggctccg tgctgaagat gtgcaaggca ggaatgtgct 240
 cacaaacttc tggggcatga attttaccac cgataagctc agatctctag taaagaagtg 300
 gctgacattg attgaagccc atgttgatgt caagacatcc gacaactaca tgctgcgttt 360
 gttctgcatt 370

<210> 28865
 <211> 448
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-013-Q1-K1-E11

 <400> 28865

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 cattcttcag agtaatgtag aggatcggtt cccagcagta ttaaaactgg aggaagaaag 180
 taaaacactt cgggattttc atgttggtga tattgaactc ccagggcagt acttcacaga 240
 tcaggaaatc gcaccggacc aactgttaa gttggacaga gttggacctg acattccaat 300
 tgtccggagg catggcagta gctttcgacg gttgacactt attggttctg atggttcaca 360
 gcgccatttt attgttcaga catcactgac tccgaatgct cggagtgatg aaaggatgct 420
 gcagctattc cgtgtgctaa ataaaatg 448

<210> 28866
 <211> 375
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-013-Q1-K1-E12

Sequence

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cagcagacaa tttggccacg tgctgcagca gctgcagagc ggctatggac accaattgag 180
aagctggcga aggacacaag atcggctcact gcatgattgg cacgcttcag gtgcttgctg 240
aatcaaagag gggttgctgc tgcaccacta gctggttatg gccgctcggc accatcagaa 300
ccaggttcct gcttaaggca ttagatattt ttcatagatg agtatatttt acataatttc 360
aggctttcaa tttac 375

<210> 28867
<211> 185
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-E2

<400> 28867
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atgcggatac ggagtgggtga tgtcactgca attaaagctaa aatgattgct cattacttga 120
agccgatatt gttgttgtct ggtgttggag gcagaccatt gactactcta ttttaagggtc 180
aagtt 185

<210> 28868
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-C9

<400> 28868
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ttggtgaatc ttagcataga acttgacctt ctattatttt gtatgtttgg tttgcatggg 180
ataactggca tgggatatat ttatgtacat tgatatcggt tttatgctta ctcacatggg 240
ataatctgat cttctaactc aagatatattt tcttttggtg atatgatcgt ttaacttaag 300

tttgcattca ttttagactt taggttatgt tagtcataac atgcttggtt agacatattt 360
acattgtttg atcatatttt cttttcatgt tacgtttgta ttatttggat ctcggtgggt 420
t 421

<210> 28869
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-E4

<400> 28869

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catcaacagc gggtagcagt cgtgggggtcc gctcttcggc aagctcttct tcgccttctg 180
ggtgatcggt cacctgtacc cgttcctcaa gggctctcatg ggtcggcaga accgcacccc 240
gaccatcggt gttgtctggg cgatcctgct ggcgtcgatc ttctccttgc tgtgggttcg 300
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c 361

<210> 28870
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-E5

<400> 28870

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ccagcagatg ctgcaccagc tctttgatct caagcgcaag gaacaacaac tgcaagatgc 180
taacaaagat ttaagaatga agatagaaga aactagtga gaaaatgtgc tgcgactgtc 240
tagccaggat attgggtgta gtggatctag tgggcatggt gatgaagcca accaagaaca 300
ccttcaactt gctctagaac cttcgtgca tatatggtat caaggctaca tggaccacct 360
gtactatgat taagttgctt ctttgtgcgc tgtgtgctct aatggccaag gttcttctat 420

atatgtt

427

<210> 28871
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-E6

<400> 28871

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accgcgtgaa agcagaagac ttggaggaag aagcgaaagt aatgatcttt ctcttccta 180
tgtttttgtc atttggttc atttagcttt gctcttgctc tgtagtttat ggtgcttctc 240
gattagatca ccggtcctac gattgttaac tttcatgcc gactcattgt ggatcttgca 300
gtggttccta cgttattaat ttgtctgagt 330

<210> 28872
<211> 140
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-E7

<400> 28872

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gggtcgattt taatggcccg agcaggttat taaggttact cgtagtacat tctagaacca 120
cccgcgaaa gcataatact 140

<210> 28873
<211> 189
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-B12

<400> 28873

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gtgacacttg cggacgtgct taatgaatgc acggagctgc ataagaggat cttgtgctgc 120

aaactttaca ctagagaata acgataaggg agatcaggaa ccacatatgg ttcattgagga 180
acacttttat 189

<210> 28874
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-B2

<400> 28874

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cgaagaaatg agctttatgt gtgtgcaagt tcggctctgta tgttttcttt agatttgttt 180
agtcattacc ttatattggg cctttactct ctatttttat gcattttgtc ttttttttat 240
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ttttttaatg ttatttttaa 320

<210> 28875
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-B3

<400> 28875

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gagaaggccc tattcagagc actgaaaact cgagggaata ctccaaagta tgggcttata 180
ttccactcct cctatattgg ccgtgcttca accaagaaca agggcagaat ggctcgttac 240
ctggcaaaca aatgctcgat tgctttacgc attgactggt acttgagggc tagttcctct 300
gtctttgggc aaaaattgct 320

<210> 28876
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-B4

<400> 28876

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atggcgattg ttgagttcga cgagcagccg tcggataact tcgacccgaa gaaccggtat 120
gccgaccgcg tggcgatgct cgagtaccgg gaacacctgg tgcgagagaa gtggatccag 180
atcgagaccg ccaagatcat ccgggagcgc cttecgctggt gctaccgcat cgagggcatt 240
aaccaccacc agaagtgccg tcacctcggt taccaatacc tataggc 287

<210> 28877

<211> 336

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-013-Q1-K1-B5

<400> 28877

cgtggctgga agccccctgt tcgaaggcag ttctttcttg actgcaatga gattgcagat 60
ctatgtgata gtgctgaaag aatattttca agtgaacctt gtgtcttaca gctgaaagct 120
ccattaaga tatttggtga tctgcatggt caatttggtg acctcatgcg cttatttgat 180
gaatatggcg ctctttcaac agctggagac attgcttaca ttgattatct tttcttggga 240
gattatgtcg atcgtggtca gcatagtctg gagacaatca gtcttctcct tgcactgaaa 300
gttgaatatt ctcaaatgt acatttaatt cgaggg 336

<210> 28878

<211> 468

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-B6

<400> 28878

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atataaaaat aaaacaaaaa aaatattata aagtatcact cttatatctt acaatattaa 120
ttctccatt tttatatttc tcttatcttc attatttttt tccattacct tattctctta 180

tcttattttt atttttcttc ttttacttct ctttacattt ctctcattga ttttctttat 240
 ctttttactt tacttttttc ttttttttct cttttcttct tacttttctt ctctttctta 300
 ttattcaatc gttttttttt ttcttatttt tcttttcttt ctctctaat cttttatttc 360
 tttttgtttt ctttctttta tttttttttt caattttttt attttttttt ttatttatat 420
 ttctctatta tccttttttt tttttttttt ctttatttat tttttttt 468

<210> 28879
 <211> 361
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-B7

<400> 28879

cggacgcgtg ggcggacgcg tgggcggacg cttgggattt ggaattcttg ctggatcctg 60
 tgtgaatcct cttctatttt cctctccat tgttcttta ttctatttcg gttttgatgg 120
 ccagtacttg agtcaggtaa tgtgtacaaa gttgctctg atgctgcctg tcattgaatt 180
 gtttggcatg tgaggaagat ttaaattgaa tattcaactt ttgtggcat gatagttgca 240
 cttattttta ccaataatat tcattattag gattcttttt ttttcttctt ttttttttta 300
 tgttttattt tacgttagtt tttttatttt tcttatcggt ttattatatt tctctttatt 360
 t 361

<210> 28880
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-B8

<400> 28880

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 gcttgagaag gacaaagagt tatttcaact agcccagcaa taccacaaag tgggtgcaga 120
 aagggatcaa gccattgcag tcaaagatag actagaatct cttttagagg aatttcagcg 180
 tcaaaacaaa atgctaaagg aagagtgcc aagggtatcg acagaggac tgaacatgcg 240
 tacggaattg tctgaaaaat ttgatcatgc catatagggt gtcagtgcc aacttgatga 300

<213> Zea mays
 <223> Clone ID: LIB3067-013-Q1-K1-C10
 <400> 28883
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 ggtagcattt tactctgtgc tgaaacagtt gcaattcatt tcttctgcga tcaaattatt 120
 ttggtgaatg tcatcataga acgtcacctt ctattatctt gtatg 165

<210> 28884
 <211> 448
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-C11
 <400> 28884
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 gcgctgcgtg ccctgtacaa cgagatccgg agcatgaagg tccgcgacgt gccggcttac 120
 ctgaagccgc gcttgacctg ggacaacgtc aagaagagcg ccgaccaggc cgtcgaccgc 180
 tacatcgaga agtacatcga cacgagctcg ccggaccctc tctaccacgt ctgcatcgga 240
 gggatgatct tctcctactt cgtcaatctg ccctgggagc gcgcccacct cgcccacctc 300
 gaggagatgg agaggaccgg tgggaagcac tgatccgctg ccccgttctc gccggcagcg 360
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 tgttgagcta ctggagtcac gttacttt 448

<210> 28885
 <211> 200
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-C12
 <400> 28885
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 tcattgtctg gatcatcttt ttctccttgg atgtgttgca tcttttgagt gtggaaatgg 120
 atggtactcc tcgccatgaa tttgctggct actttataca ttgctttgta actctgtttg 180

atgataaact ttgttgtggc

200

<210> 28886

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-C2

<400> 28886

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ggaggcaagg gcctgggtaa gggcggcgcg aaacgacacc gcaaggtgct ccgcgacaac 120

atccagggca tcacgaagcc ggccatccgg aggctggcgc gcatgggcgg cgtgaagcgc 180

atcttcgggc tcattctacga ggagaccgcg ggcgtgctca agatctttct cgagaacgtc 240

attcgcgacg ccgtcaccta cactgagcac gcacggcgca agaccgtcac agccatggac 300

gtcgtctacg cgctt 315

<210> 28887

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-C3

<400> 28887

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atggagccat gattgctgaa caagtatttg agaagactaa agagaagttc caaatgtatt 120

gaaccgtgga attacttggg gggatgattt aacattgtga tagccctctg attctcaaaa 180

aaagaataac acaacctctg gtattatgta atttatgatg ggccacaaat tgccattgtg 240

cttccatttc tgaaaacaag attgatgtca ctcttgatc ttcaatgagc agttgattct 300

taacttaaat aattaaattt tttttatttg ttttattttt 340

<210> 28888

<211> 60

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-C4

<400> 28888

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<210> 28889

<211> 258

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-C5

<400> 28889

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atttctccg tccccgaacg atcgatcttt tgcattggcag cagcggctag ctccaagggg 120

cgggcgatcg ctgggagctt cgtcagccgc gtcctggccg gcaaggccgt ctccccgagg 180

agggccgtgc acgcctcgtc ttacgacaag aaccctgtgtg agcatgtgcg cccggcgcttc 240

gtgcctgact atgtgatc 258

<210> 28890

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-B11

<400> 28890

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gtggcaattg ctgaccaggc taccaaacca acgtcccttc ataagctcgg tggccagttc 120

cacctgcgct cgatcatctc tgaagggtga cgggtcccga acatatgccc atctgtctca 180

tcttatgaaa ggagatttgc cacaaggaac tacatgaccc atagcctttt gtgcccttcg 240

atgtctgtta gcggtggcat caatgtccca gtgatgcgga ccccgctctg tgctaattgt 300

cctgctgaga aaggaggc 318

<210> 28891

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-C6

<400> 28891

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cataatatca tgcccggcat caaggttgac aagggtttag ttccattgcc tggttccaac 120

aatgaatcgt ggtgccaagg tcttgatggt ttggcttcaa ggtgtgctga gtactataag 180

cagggtgccc gcttcgcaaa gtggaggact gttgttagca tcccttgagg tccatctgca 240

ttagcagtgt aagaagctgc atggtgactt gtcgatttg ctgctattgc tc 292

<210> 28892

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-C7

<400> 28892

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ccaggccgac cagctccgga acgcccggcg cctgcaagtc cagtacattc ggggtggcgtg 120

caactggaac ggcttggaac tcgccttcag ggtggacgcc ggctcaaacg ccaactacct 180

ggccatggcc atcgagtacg agtccgggga cggggacctg cgcgccgtgg aactgaagca 240

gagcggcgcg gcggcggtgg cgcccatgca acgctcctgg ggcgctgtgt ggagtagaaa 300

gtccggctcc accaatctgc aagccccctt gtctgatcgc ctcaccttgg gcttcggcag 360

g 361

<210> 28893

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-C8

<400> 28893

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agaacaacgc caagaagcgc ctttaagcggc tctggcagaa tgaggcggtt ataagggtt 120

gtggtgaatc agaatccaga tcagcgtcta acgtggcttc caccactgag aaacaacagt 180

agcctttgac tatttcccc agtttgctgt catcagattg aaagccaagt gcgtgtataa 240

atcttacttt cttcaacatc attcggttgc accatatgca accttgcccc ctcccgaact 300
 tcggcggttat ttttatttca ctggtttcat gttacttctg gaaaaactac ttggggattgg 360
 tttccttcct taattattct gcatatgctg aatgatattg cctgccggaa tggatatgcat 420
 tgcaccaaaa aaaaaaataa ag 442

<210> 28894
 <211> 250
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-A1

<400> 28894

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 ccatgagaac ctacaacaaa gcagtgtctc tcgtccttgc catggtgatg gcggtgctgt 120
 cgacagggat ctgcacagcg ccggcgccgg caccggcacc gagcttggag gagttcccga 180
 cgacgacaga agacacgtgt gtgaagatcc tcgccgacag cggctgcgtc cacaaccaca 240
 aggcgtgcca 250

<210> 28895
 <211> 450
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-A10

<400> 28895

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 cgccgaggcc gcgtcgacgg ctgcggtgag gacggcgag aaccgctcg aggagttctt 180
 cgaggtcgag cggagcaccg aggagggcaa gcctcctccc cactacggtc gcagctggaa 240
 ggcttctgaa ctgcgactaa aatcttggga tgacctcag aaattgtggt atgttcttct 300
 aaaggaaaag aacatgctaa tgacacagcg tcaaatgctg cattcagaga gcatgaggtt 360
 cccaaatcca gaacgatatt tcaaggtaaa gaaatcaatg tgccggataa agcatgtctt 420
 gactgatagg tctatagcgg agcccgatcc 450

<210> 28896
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-013-Q1-K1-A12

 <400> 28896

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 gccgctccct cgcctccggc agcgagggtga ggccaccgat cggaccttcc ctagcggcgg 120
 cgctaccaa cctcaaggag cgatggctct gtctgcgacg ctacggattt ctcttagcgt 180
 cgcgttcttt ggggttctgg cgttcgtgct tgggtgcatc gccgaaaaca aaaagcctgc 240
 ttccgggact cctatcctag gaaaggatgt cgtcatctgc acgtttccaa gtgatccgac 300
 tcttgcatg gggagcctgt ccattggggc acttgtggta gctgccatcg tatgccatgt 360
 tgccatcttc ttccatact tgggcaagtc agttcctcgt ggagcgctgt ttcaaagcac 420
 cagcttgata gtgttct 437

<210> 28897
 <211> 451
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-013-Q1-K1-A2

 <400> 28897

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 ttgcaaagat tgggtattgga tgaaaacca tatgcatttt atattcattg ttttgctcat 180
 caattacagt tgggtggtagt ttctattgcc aaatgttggtg actcagtata tgatttcttt 240
 aattacatct tattgattgt caatactgtt agtgcattct gcaaagaaa agatcttctt 300
 cttcagagac atcatgataa aattgtggaa gaattagata gtggtgtcta tattttctgg 360
 gagaggaaaa aaccaagaaa cttgtctcgg caggtcaggg gatactaagt ggggccaca 420
 ttataagaca ttggtgcgta tctttttatg t 451

<210> 28898

<211> 229
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-013-Q1-K1-A4

 <400> 28898

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 ccaggatata gtacacccaaa acactactac tcgtcctagc tcatgtggat gcctgactgt 120
 ttacagggat ctatacagca tgtgatcccg tactatcgcc gatcttgtag gagttcttgt 180
 attcgactga ttgcacttga ttgattatct ctcatctact gatgctgct 229

<210> 28899
 <211> 257
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-013-Q1-K1-A5

 <400> 28899

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 catggagcaa gcagccatgc cgcaggttcc ccgcgtcaag ctcggcatcc aggggcttga 180
 ggtgtcgaag ctgggggttcg ggtgcatggg gctcacgggc acctacaacg cgccgctcgg 240
 cgactaggcc gtggccg 257

<210> 28900
 <211> 229
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-013-Q1-K1-A6

 <400> 28900

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 actttcaagt tcaggatgac tatctagatt gttttggtga tcctgaattc attggcaaga 120
 tcggaactga cattgaagac tacaaatgtt cctggctagt tgtgcaagct cttgagcgtg 180
 ctgctgagaa ccaaaagagc attctgtttg aaaattacgg aaagtctga 229

<210> 28901
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-A8

<400> 28901

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cgagggtttg ggtttgtcca gtattatgat cctgctgatg ctgctgatgc gaagtactat 180
atggatgggc aggtagttct tggtaggcaa ataacagttg tttttgcaga agagaacaga 240
aagaagcctc aagagatgag agctagggac agagtcaggg gtcattctta tgatgacagg 300
aggtattctc gctctaggtc gctctgttat tataggggcc gctctccttc acgcagtcaa 360
agctactcga ggtctccacc ttagaatcca tgacacagac ttagagagag gtcctactcc 420
ggctcacctg tggacagcag atcaag 446

<210> 28902
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-A9

<400> 28902

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tgaaggaatg gatatggaaa ttgatttgtc caatcttgga actgtgaaca caatgtttgc 180
agcacttttt agcaagcttg gtgttcctat caagaccaca gtatctccta ctgtgctgga 240
agaggccatg aatggcacag atacagtgag accactccct gttggaacat cagctactgg 300
ataggttgat atgcaatgct cttatttttt tggcgtaaca ataattgaag agcaagctca 360
ttc 363

<210> 28903
<211> 315
<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3067-013-Q1-K1-B1
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 cgaagaagtc ggtgtcgcgg tccgccaggg ccgggctgca gttccccgtc agccgcgtcg 180
 ggcggtacct caaaaagggc cggtagcgc agcgtgtaag cacgggtgcc cccgtctacc 240
 tcgccggcgt tctggagtac cttgcggtcg atgtgctcga gctcgccggc aactcggcaa 300
 gggacaataa gaaga 315

<210> 28904
 <211> 243
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-013-Q1-K1-B10
 <400> 28904
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 acatgcgatc tggaaaacaa cattggcttg gtatcctccg actatgactc gatagacgaa 180
 atctatcagt actacgactc ttcttacgct caggcgctac atgagaagcc ttgatccaac 240
 tac 243

<210> 28905
 <211> 224
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-011-Q1-K1-G7
 <400> 28905
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 tcggtgcaat gcctatgcag ctaagtgtc cagattagtc ggctccatac cacatgcaac 120
 tgatgatgat actctctact acaccaatca tcaaagaaat ggatatctgt gaaatcctat 180

tcctatatc agcattgtat taagagttca cctataacac aact

224

<210> 28906
<211> 56
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-G9

<400> 28906

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<210> 28907
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-H1

<400> 28907

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taagccacct tctaagaatc gtatggacaa gcttgacact gacttttctt gccattctg 180

caaccactgg agtcgtgtag agtgccgaat tgacatgaag gaatctgatt ggcgaagcat 240

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atatatatag tgaatggata gatgagt 327

<210> 28908
<211> 192
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-H12

<400> 28908

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gcttgctatg tcaactgcag ctattgcaac actatactgg aggtgaatgc gccaaagcata 180

cggtgactac aa 192

<210> 28909
 <211> 323
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-011-Q1-K1-H2

 <400> 28909

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 tgcttagcca ccttctaaga agcggatgga caatcttgac actgattttt cctgcccatt 180
 ctgcaaccac gggagtagtg ttgagtgccg aattgacatg aagaatctga ttggcgaagc 240
 atcttgtaga atctgggtctt gaaaacttca ccacaactgt ttatgcactc actgagccta 300
 tttgaatata tagtgaatgg att 323

<210> 28910
 <211> 130
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-011-Q1-K1-H4

 <400> 28910

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 agaaaagaag cggaaccaag gggaagagaa agacagcagc gaagccaccc acaaagaagc 120
 ggacggacaa 130

<210> 28911
 <211> 359
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-011-Q1-K1-H5

 <400> 28911

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 tggatgtaac gtgggatatg cattcatcaa tatgacagat ccacagcaga tagttccatt 120
 ttacaagaca ttcaacggca tgaaatggga gaagttcaat agtgagaaag tggcatcact 180

tgcgtacgcc agaatccagg gaaggaacgc tatgattgct cattctcaga attctagcct 240
 gatgaatgaa gagaaatggt gccgccctat gcttattcac aaagatggcc ctaacgcatg 300
 agaccaggaa ccattccctg tgggtaacaa tgtatcgttt tcggtctcgg aggaacata 359

<210> 28912
 <211> 218
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-H6

<400> 28912

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 ttacatgaca ttcaacggca tgaaatggga aaagttcaat agtgataaag cggcattact 180
 tgctgtacgc ctgaattcag tgtatgaacg cttagatt 218

<210> 28913
 <211> 248
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-G6

<400> 28913

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 cgggtgctatg cctatgctgc atagagctgc tgatttgtcg gcccatacca ctgcaactga 120
 tgatgagatg ctctgactac accaatcagc tgagaaatgg aattttggaa gcctactctg 180
 gtatcctgca aggatttaag agttcatcta atacacaact gatgaagcca ttcgatacctt 240
 atattatt 248

<210> 28914
 <211> 202
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-H5

<400> 28914

accacgcgtc cgctgggttg gggaaacaaa atatagaaag catattcttc aggcactttt 60
 atagatatag tatcttgcac agtttaagag taaaaagggtt cgacttcaaa tgtaacgtgt 120
 ttgtgggggtt ctttcaaacc actggagatg atttactatc ccctaagatg agatttaaata 180
 ggtttccttt ctgcagactg ct 202

<210> 28915
 <211> 374
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-H6

<400> 28915

aatatccagc gtttgtgtca atctggtaaa tgccgacttg accgcacagc agacggggagt 60
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 tcaagttcag attgccaatg tcgagtccaa atttaccagt gcgatatctg agactggaga 180
 gatcactgtg gagggcagag tgaaggatgg tgttcctcat ctaacaaagg ttggagcatt 240
 ccaagtcatg gtgagcttgg aaggaagcct catcctttgc aggcacgttg atcaaccatg 300
 gatgattggg tcaatcgga ggcgtcttggg tgacgagaat gtaaagtgtca gtttcatgag 360
 tgtttggaag aatt 374

<210> 28916
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-H7

<400> 28916

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 gccttaacag gcgtacttct gcctgtgttg gtgaccatgg agaattggaaa gcctaaccctt 120
 aggaagaagg tgatgccagc tgtcattgtg aggtagcgca agccatgggtg ctgaaaggga 180
 tgacgtctac atgtactttg aagaagcaag acaaatataa ggatgctgaa cctagtgtcaa 240
 tagatctttt taaggagatg cattgcagca aaaagaaagg gtttagcata tatgttcaga 300
 aagctattgt tgatatggaa gaaatgggtg caacatcagt tcaagatgga caacaaccga 360

aatatacctac aaaagttggt tatagtgtgc aacttggctc cagtgtgttc ttatgcaatc 420
t 421

<210> 28917
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-H8

<400> 28917

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taaagtgaac gtgggatatg cattcatcaa tatgacggat ccacagcaga tagttccatt 120
ttacaagaca ttcaacggca agaaatggga gaagttcaat agtgagaaaag tggcatcact 180
tgcgtagccc agaatccagg gaaggaacgc ttgattgct catttccaga attctagcct 240
gatgaatgaa gagaaatggt gccgccctat gcttttccac aaagatggcc cgaacgcaag 300
agaccaggaa ccattccctg tgggtaacaa tggtcgttct cggtagcgga ggaacagacc 360
acttagcagt ggttcggaga ctaccaa 387

<210> 28918
<211> 131
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-A1

<400> 28918

gccacgcgta cgaatcatta ttcatataac gttctttag caciaaggct gttggacatg 60
aggaacaggc attgtactat tacggatcaat ggcgtttaa tccgatggg tcacttaggg 120
aatgatgatg t 131

<210> 28919
<211> 144
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-A2

<400> 28919

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 caagaagaac aggcaggaaa caacaacgga caaaggcgaa gaaagccgga gggaacagaa 120
 agggaaggaa gacgaccgca aaaa 144

<210> 28920
 <211> 333
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-A5

<400> 28920

cccacgcgtc cggccacacg tgcgcccacg cgtccgcgca cacgtccgta cacgcgtgcg 60
 gggatttctc cctcttgccg gttcccaata aagatcagct gctcatgatg tcttgacagag 120
 cgagaagaag gcaatggcgt gtcgacagct ttcttttcac ctctgagtc acgaactagg 180
 ggcaccctga caagctgtgc gactcagtgt cagacgccgt gcttgacgca tgccttgccg 240
 aagaccctta cagaatggtc gcctgctaga cctgcaccaa gaccaacatg atgatgggtg 300
 tctgctagat cacgaccaac gcgaccgtgg act 333

<210> 28921
 <211> 177
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-B1

<400> 28921

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 ccctggggaa ggtcatgcaa tgctatgtgc ccactatcga ccacttctag cggatagacg 120
 agcagtgcgc attcatagtg cggctgtatg ctgtgttacc gaatggacgc atgttgt 177

<210> 28922
 <211> 52
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-B5

<400> 28922

aacgcacgta cgtagagcgt ttgactctca tgcattgccat aacatgcagt ct 52

<210> 28923
<211> 51
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-B6

<400> 28923

aacacacgtc tgtagaccgc ttgatattct tgctattctt aacatatatt c 51

<210> 28924
<211> 94
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-B7

<400> 28924

accacacgta tgtagagagc ttgatattca tgcttgtctt aataaacagt ctcagacgat 60

agtgacacgat atatcacgta cttatgttta tatt 94

<210> 28925
<211> 267
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-C1

<400> 28925

gacgatcttt ggcgagtgtg taatccttaa atttaagcta gatcgggtgct gctacctgga 60

gagagctgtg atgagaaagg ctatctctgc agagagcctg atatttgaag actcatttga 120

cggctaacat gtggtactag tttagacata tgtctggact gctatctctg aaagggttcgt 180

cacggtctgc taagctcata atttttgaat atctgatagt cgaaataagg aaggatcatt 240

tatgtgtagc aatagctaaa tggttatt 267

<210> 28926
<211> 305
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-D6

<400> 28926

accacgcgtt cgccacgcg tccgattacg cttacgagac tatggatatt caacatacgt 60
ctggaatata tatggaggag cttatgtccc gttttatgga tgagtaacag ttggtatggt 120
gacaggaaca agtacctatt attcatatct tcattttggg cagttttgaa aactactat 180
caactattca atagtacaat gcttctactt gctacaattc ttacatatgt tacaattatc 240
aactgaatct tctacagttg ctgtatgtta ccgtttatga tcagtaatat tgaagatcat 300
ttggt 305

<210> 28927

<211> 195

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-D7

<400> 28927

tcgaccacgc gaaagattag acatgcagtt tcgctttctt gactatgggc atccaacaag 60
cgtcggcgta tatattatga agagcttaga atccgattta tggtaggacc aacatcgga 120
atggagacat gtacaagttc ctttaataca tatgactcat ttagccaagc atgatacact 180
actaccaact ttaca 195

<210> 28928

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-E1

<400> 28928

cttgtacgca tctgaagaca ttaacaatgg gcaagggaca actgggagaa tcattttttc 60
aagctttggc tgagtgccca ttattgactg ctttaacagt caacgatgct tctattggga 120
gtggcattca agaagtaact gttaatcatg atggacatgc gtgagcttca tattttgaag 180
tgccatgcac ttagaatatc ttgcagatga tcccaacttc aaatactgtc tttgaggcta 240
acaggcatgg ctcatgtatc tctgaactgt gctcaattgc ttgagttgga cttccaatcc 300

tgccataagc tttttgac

318

<210> 28929
<211> 67
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-E3

<400> 28929

cttgtacgca tcgtaagaac atatcagatg ggctatggac aactgctaga atcatttttt 60

caagcta 67

<210> 28930
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-F1

<400> 28930

cccacgcgtc cgcccacgcg tccggcagat ccttccagcg gctgtcgtg ttctgttcc 60

accttccgtt gatcataagc aagcagcttc tgtgatgctc aagggcatga ccgcccattg 120

tctgcttcgc cgggtattca aggtacaaac aaaccctaaa ccctaaccac tacttaattg 180

attgattttt agccctcctc ttacagtatc cactcagtct gggatctcag cccttggtta 240

actgaatgtg attctgacga ccccttctta ttactttgcg cgagcgttct gacaattgtt 300

tatttgaaca atcaattgga tatgtaaaca gtaagcaaaa atgacattgt atatttatat 360

aagtaatata taggtctatt tatatacatg gaagccgata catagtatga aaattgtgat 420

taggaatttt gaaagttttt tagattgatt cag 453

<210> 28931
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-H4

<400> 28931

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tggaccatgt tgatttggtg agagaacagt tgaaaatttt gtcaggggag gttgcgttta 120
 atacaagtgc tcttaagcgc ctcacagagg aagctggaag aagcccaaag aacgagaaga 180
 ttcagatgga aatgaagaag aagaccgatg aaattaaagg gaagcatcaa cagatagcat 240
 ctttgagag agagatagct catgcaacat taggaactca aggaaaggtc gatacgttag 300
 agcattcacc gtcttatcat gaactacttg agcagctcaa tgagaaatct ttagaa 356

<210> 28932
 <211> 376
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-F5

<400> 28932

cccacgcgtc cgcccacgct tacggcttac ctgcaatcaa aatgacgaat gggttaccct 60
 gcttgaatcc tttgccactg agcttgctg ctactactat tccatgcaaa acaacgtggt 120
 cttaacaaa attaaagtta ctaacatcgc tgtgatgaat gggatgaatcg taacctattt 180
 cttggaata tcactgctt gctcgaagaa cagctgcgtt ggtccagcta tctgggtacc 240
 gtactatcta ccacgattg aactgtatat gggtaaagt aatctgggga tatactcttt 300
 gcatgctagg atataagggtg ttactacttt taattcttaa atcactatat atatttaatt 360
 ctcttttatc aatttt 376

<210> 28933
 <211> 351
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-F6

<400> 28933

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 gctggaattc ttagccactg cgcttgcttg ctactaccta ttccatgcat aacagcgtga 120
 tcggaaccaa aattaaagtt cctgaacatt gctgtgatga atgggtgaat cgtcaccttt 180
 tactatgaaa ttagcaactg tttgcacgaa gaacagctgt gcttgtccaa ctatctgggt 240
 accgtactta cctatctcta ttgaacagta ttttggttaa agtaatgggg gagatactct 300

ttccatgcta tgaaaaaagg tggaactacc ttttaattcta agattaagaa a 351

<210> 28934
<211> 163
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-F9

<400> 28934

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catacgcttg tcttcctcgg ggagatcttt tcaacgaccg acagctcgga acgagtctta 120

gaagccatgg cgtcaaagag gctgctgctt gcggcgctgt gcg 163

<210> 28935
<211> 282
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-G1

<400> 28935

ctgacgcgtg cgctgacgcg tgggctctac attggcatct gatgctgact acgagttcct 60

ggggcaggcc atgggtcatg gtgcgtgggc gaacactcag acgctgacgc tgctgctgat 120

cggactacct accgtactag tgctggtagc tgattatcgc caatagcacg tatcgtgtat 180

cggtagtggg caagccgccg gttactacat cgtcgacggg cacactggcc atattggggc 240

acctacacca catttgctccc tagacacaca tatctttcaa gg 282

<210> 28936
<211> 99
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-G2

<400> 28936

tcgcggacgc gtgcgctgac gcttgggctt tacattggca ctccaagctg attacgagaa 60

cctgcggcag gtcatatgcc atggcggcct ggtcctatc 99

<210> 28937

<211> 327
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-011-Q1-K1-G5

 <400> 28937

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 cgggtgcgatg cctatgctgc aaagtgctgc tgatttgacg gcccatacca ctgcaactga 120
 tgatgagatg ctcgactaca ccaatcagct aagaaatgga atcttggaag ctttctctgg 180
 tatcctgcaa ggatttatga gttcacctta gacacaatct gctgatgcct ttcgctccgt 240
 atataattca gaccttgat gctctgtaca atgtgaagga tatggatgat actgtgatta 300
 atactgcaat atgtgatttg tgagatc 327

<210> 28938
 <211> 141
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-010-Q1-K1-F5

 <400> 28938

 ggccgctcgag gactgcggcg cggcgtcggt ccaccgggtgc gactcgggtgc gcgtgcaggg 60
 cgggcataca gcgggcaaga gccgctgccg gttgtacgag gtggagagcg cgggcgcagt 120
 ggacatccga ccttacaagg g 141

<210> 28939
 <211> 370
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-010-Q1-K1-F7

 <400> 28939

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 gcttgaatcc tttgccactg cgcttgctg ctactactat tccatgcaaa acaacgtgtt 120
 cggaacaaaa attaaagttc cgaacatcgc tgtgatgaat gggatgaatcgc tcaccttttt 180
 ctttgaaata gcaactgtat gctcgaagaa cagctgtgct ggtccagcta tctgggtacc 240

gtactcccta ccccgattga actgtatttg ggtcaaagta atggggggaga tactctttcc 300
atgctaggat ataaggtgta actaccttta attctaagat caagaaatat atttaattct 360
ctttatcaat 370

<210> 28940
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-F8

<400> 28940

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gcacagagtt cgatccaacc acaaaaaccc catgtgttat tttcatgccca gaggggtcaa 120
aaacccatat gggggcaaca atgcgccttg gatcaaggag gacctttttc caggtcacta 180
actgcaaadc tgctaaactg tatgggaatg ctagctacgt tgatgaacgg caccgccaca 240
gatactaggt gaatcctgat atgggccag aatttgagaa ggcagggctt tctttcgttg 300
gcagggatga aagtggtaaa cgcattggaga ttatcgaact gccaaactcat atgtatttcg 360
tcgggtgcaca atttcattct gaattcaagt c 391

<210> 28941
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-F9

<400> 28941

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atggcgtgaa aaagatcggc atagacacca ttgatcaagg tgaggaggat cccggggttg 120
cagggtcttg ctgcatggag accaccacat ggcagtgccg acagaatcat gaaaacttgt 180
agattgtcat ctattggcg gttgcatttg cttcattgtg ttttgcacct tggattgtaa 240
cttgagagc aacatgaatt tgtagaacct tcattctcac tagttcccaa aattctcgag 300
aaataattta tgggtgttact aatataaaaa ataatttta 339

<210> 28942

<211> 252
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-010-Q1-K1-G10

 <400> 28942

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 tgggctgatt acagggaaga tcttttgccg ggtttggccg tcagagagtc ttggcgcaat 120
 tgatgactca tcgaagcagt cttaacgctg atgaggagcc gaggagcaca tggacccata 180
 ttgtttgatc gcgcccagag attctatcta taacatactg catggggggcc ctttattgag 240
 ctcgagagct tt 252

<210> 28943
 <211> 392
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-010-Q1-K1-G11

 <400> 28943

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 agaggtccgc gatgctgcta gagaagctgc tcttcgtgag atcaaggagc gcatcaagaa 120
 gaccaaggat gagaagaaag cgaagaatgc ggatgtgagc aagtcccaga agacgcagac 180
 aaaggggtgcg gtccagaagg gttccaaggg cccaagttg ggcgggcgggtg gtgggaagcg 240
 ctgaaagaac ttagtgctgt ttctcgacat tgcagtcgtt ccttagccaa agccactttc 300
 gtagaacctg tngtgaattt gcaagactta ttcaagcgtt gcttgtgcgt gctaaatacc 360
 atggcaagag aacggattta tatttatgcc tg 392

<210> 28944
 <211> 343
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-010-Q1-K1-G2

 <400> 28944

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CGCGGCGTGC

cagctttttg aggggtattg ttgactcaga cacactgccg ctgaatgtgt cagagaaat 120
gctccaacaa catagcagtc tgaagactat caagaagaag ctgatccgca aagctcttga 180
catgattagg aaacttgctg aagaagaccc tgatgagtac agcaacaagg ataagacaga 240
tgaagagaaa aatgagatgg aggagaagaa gggccagtac gccaaagttct ggaatgagtt 300
tggcaaatca atcaagctgg gtatcattga agacgcaact aac 343

<210> 28945
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-G3

<400> 28945

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gcgggaggcc gtcggccatg gcgcgtggtc gtccacgcag acgctgacgc tgctgctcat 120
cgccgtaccc accgtactac tgctgctagc gtccctcgcc aagagcacgt cgtcgtccgg 180
taggggcaag ccgccggtcc ctccctagcc gtcgggcacc ctccccatcg tggggcacct 240
acaccacatc gggccccaga cccacatctc gtcacaggag ctggtggcca agtacgggca 300
caacgggttc ctgttccttc gcgccagcgc cgtgccacc ctgatcgtgt cgtttgccaa 360
cgccgtcgaa gccgtgatgc gcacccacga ccaca 395

<210> 28946
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-G4

<400> 28946

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cgcgcatcgc atggcgccca aggccgagaa gaagcccgcg gcgaagaagc cggcggagga 120
cgagcccgcg gccgagaagg cgcccgcgga gaagaagccg aaggcggaga agcgggtccc 180
cgctggcaag tccggtgcca aggacggccg cgagggcaag aagggaaga agaacggcaa 240
gaagagcgtg gagacctaca ag 262

<210> 28947
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-G5

<400> 28947

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cgtcagagtg ttaggacaag atggtggcca atggtgatgc acctgctaga gggagcgcgg 120
cggcagccgc aagcctgcgt aggcgtagga ccacaagcgg tgctgctgct ggtggaggcg 180
gtgccagctc aatgctccaa ttctacactg atgaggctgc cggccgcaaa atgtcaccaa 240
acactgttct gatcatgagt attgggttcg tagccgtcgt tgctgtgctc catgtattcg 300
ggaagctgta ccgcaccttc aactaggttg gcattgccat atccaagaaa gctgagtcca 360
ccaagagagg attcctgtag aacaatttaa atggatagca agtgactatc agactctggt 420
gtagaagttt atttatac 438

<210> 28948
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-G6

<400> 28948

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gggcacacgc accgtccaag ctgtgccact caaattcagg gccatcgcaa atccaccggc 120
tccccgatcc ggtcgtgtac ccaaccggcc gatcggatcc tgccgtgtgg attgaacgct 180
gaattgtgga tattcaagat tttagaggaa catgggcata gcatggaaga gttctatgct 240
atagaatcat ctaaaattga tgataaacia atacatctat atggaattac tgaaggacat 300
ggcggagcac gtgctgctga gtatttgaag gagcatttgt ctgagaacct tatttatcat 360
tcatagttca tgactaacac aaaatt 386

<210> 28949
<211> 57

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-G7

<400> 28949

cttcacgta caaccactca ctctcccaac ttttatatct gattaatatg attcact 57

<210> 28950
 <211> 405
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-010-Q1-K1-G8

<400> 28950

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 ctatgcgatg cctatgctgc aaagtgtctg tgatttgtcg gcccatacca ctgcaactga 120
 tgatgagatg ctcgactaca ccaatcagct aagaaatgga atcttggaag cctactctgg 180
 tatcctgcaa ggatttaaga gttcacctaa gacacaactg ctgatgccat tcgctccgca 240
 tattattcag ttccttgatg ctctgtacaa tgggaaggat atggatgata ctgtgatgaa 300
 gactgcaata ggtgtcttgn gagatctggc tgacacatta tgtgtccatg cttgcccttt 360
 gatcaaataa ttcaacttaa ggcaggcatt tttaaaggaa tgctt 405

<210> 28951
 <211> 286
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-G9

<400> 28951

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 catggttgat ggggatgaaa ctctcatatg gagtctgcag actgcaagta atgagggtga 120
 gcatttgatg gttgatgttc ccaggaagca tggccagcgt tgccagtttt ttttgcacga 180
 aagagtaatg ggagctcttg tacagacaca tacttaatga taaaattgta aaactcactg 240
 ttcgtttcat aatattcaat agccaccgaa agatgattgg acgacc 286

<210> 28952
<211> 319
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-010-Q1-K1-H10

<400> 28952

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aggtgcacac ccaccgcccc acctctccca ctcaaattcca gggccatcgc agatccaccg 120
cctccccgat ccggtcgcct acccagccgc ccgatcggat cctgcagtgt ggatggaacg 180
ctgaattgtg gatattcaag ttttagagga aaaagggcaa gcatggaaga tttctatgat 240
ataaaatcat ctataattga tgnataacaa atacatctct ttggaatttt tgatgggtcat 300
ggcggntcac gtgctgctg 319

<210> 28953
<211> 232
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-010-Q1-K1-H11

<400> 28953

ggcaccgnca gcccgggagg tataaagacg aggcccatct cgaaatcgac ggcgatgaag 60
aagaccagtt cccctctcct gatcgtcctg ttcttcacag cagcagccat ggcggccgag 120
ccggagaagc aggcggcccc cgcggcacag gagacggccg tgcacatcgt gtacgtttga 180
ccgcccaggg acgcccagcc tgaggagttc cacanttcga cccttaccce cg 232

<210> 28954
<211> 286
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-010-Q1-K1-H2

<400> 28954

cccacgcgtc cggtccagtg tccatcagca cctcctgtgc tgtgcattcc tgagaaacca 60

accccgcccc ctgccccccc acacgcacag tttagtcccc ggagccccga ggcgtacgtg 120
 tacgtcgcat cccagcgcag cgatgccggt caccgtcggc gcccggaacca cctcctcct 180
 cttcgccacc gcagtgggtgc tagcgtgcac ttcagcgccg ccggcatgcc atgccgcgca 240
 caacatcacc gccatcctct tcgggcaccg ggacctngcc gagttc 286

<210> 28955
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-F4

<400> 28955

cccacgcgtc cgcccacgcg tccggcagat ccttcacgcg gctgtcgctg ttctgttcc 60
 acctccggt gatcataagc aagcagcttc tgtgatgctc aaggcatga ccgccatgt 120
 tctgcttcgc cgggtattca aggtacaaac aaaccctaaa ccctaaccac tacttaattg 180
 attgattttt agccctcctc ttacagtatc cactcagtct gggatctcag cccttggtta 240
 actgaatgtg attctgacga ccccttctta ttactttgcg cgagcgttct gacaattgtt 300
 tatttgaaca atcaattgga tatgtaaaca gtaagcaaaa atgacattgt atatttatat 360
 aagtaatata taggtctaata tatatacatg gaaagcagat t 401

<210> 28956
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-H3

<400> 28956

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 cgatcttctt cccctcctca agaaaagaag ctgaaccatg gggaagagaa agtcagctgc 120
 taagccacct cctaagaagc ggatggacaa gcttgacact gtcttttctt gccattctg 180
 caaccacggg agtagtggtg agtgccgaat tgacatgaag aatctgattg gcgaagcatc 240
 ttgtagaatc tgtcaggaaa acttcagcac aactggtaat gcacttactg agcctattga 300
 tatatatagt gaatggattg atgagtgtga ccgtgtcaac acttgtgaat gcgacgatga 360

tgcggtgagcc ttgccccatg tgatgaaact gttacctaca atcgta

406

<210> 28957
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-010-Q1-K1-D6

<400> 28957

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ttctgcctga actgctgagg ttgattgcct gagaaacgag gacgattgct gcttccaggc 120
tggggtccac tgatcttgcg cttacgatcc tccatctcct tacgcttctc ctctgtcatg 180
attgctctgt caatcagggtg ctggaatgct ggggaagggtg gattcatcag ctgatactaa 240
agaggggtcaa ccaagcctct caggaaacgg tactgccgct tggcgtcagt gttgacatct 300
tcaggagcat agcgagacaa ttgcagaaac ctgtctcgat actcactgac agacaatggc 360
ccttgcttga gagctaggaa ctctctcttc ttcactgtca tcagacctgc atgaacatgg 420
tactgacnga agcttt 436

<210> 28958
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-D7

<400> 28958

cccacgcgtc cgccccacgcg tccgccccacg cgttcgagac tatggttatc caacaaactt 60
ctacaatata tatggaggag ctcagtaccc gttttatgga ggagcaacag ctggcatggt 120
gacaggaaca agtccctttt atccatattt ccaatttggg cagtcaggaa aactactac 180
caactataca agtggacaag gctacaactt gcaacaatac ccacaaatgt tccacttctc 240
aactgtatct tctacagctg cagctgtgac cggctttgct cagcaatatg gaggaccatt 300
gtcactagca gcaagccctc aagcccaagc agtgtgtatc cccattaaac aggcatgact 360
atggcactca cagctccaac cctgccaaact tcaacacagg ctgctcatcc ttaccggttg 420

attcccttgc actttgcaat ttc

443

<210> 28959
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-D8

<400> 28959

acagcaccgc tgccgaaggt gggaaagaag gctgcgccag tagcaccggc accgactagg 60
aaaggaaacc gtggaaacta cagccatggt ggtgcgccatc cgtctggcag cggttcgggt 120
gccggaatcg gcccttctac cgggtgatgg ccgtctatag ccgctcccct cgagacggca 180
agcaccttga ggtactcggc tactataacc agctcccagg gaaggatgga tgcaaaagga 240
tgggcctgaa attcgaccgg gtgaagtatt ggcttgcaat tagggcacia ccattagatc 300
ttgtgcagag tattctcttt tcgagcc 327

<210> 28960
<211> 210
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-D9

<400> 28960

catatctatc tggctgtgta ctgcaagcag gcctagtacg ccgcctgcgc gttcctccta 60
tgaggacata tagggccctc cctgcgtgta tgcttggtac cgtcgtgtcg aaccttgtag 120
tacgaggctc catcgaacat cgatggcttg cttctttatc agaacatgtt tgaataaacg 180
ctatttggtg aaaaaaaaaa atataatttt 210

<210> 28961
<211> 342
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-010-Q1-K1-E1

<400> 28961

tcccacgcgt ccggacccac gcgtccgccc acgcgtccgc ggacgcgtgg gccgccttaa 60

gaggtaggtg ttctggtgct cggttgcgta gcagtaaagg gagttttcgt cgtgatgctg 120
 ctattactga actgggaggt atgcgacttc tatgagtagt tgcttattag cctacagaaa 180
 atatagggat ctgggagactg gttatgtttc atggctgttc ttctttcacc ggtaccattt 240
 tatgacgaac gttgtatgac tgattatctt cttgggttacg ttactgctac ggcattggcct 300
 catgaccctn ttttgatcta aaaaaaaaaa atattattgt tt 342

<210> 28962
 <211> 211
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-E10

<400> 28962

cgttccgcag gatataagtt atgcctgtgg atgccagtca aagtttgcgt attatttcgg 60
 taggtgcatt gtaagtactt ccgcggctga aagtcttagt ctaccttggt ggtgatattg 120
 ggagcatgct actccaaagc aaagtgcacc atcagagggt gcgtcgatac cccgcggatt 180
 gcgaaaacag gcttgcaaaa gggttcgagt a 211

<210> 28963
 <211> 284
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-E11

<400> 28963

gcggcacacc accaccagaa gagcggccga gcggcgcaga gaagagagaa ccagccgagc 60
 ggagcggctg cgcttccgga gggaggaagg aggatggaga aggctctcac caagctcggc 120
 agcttcacaa tctcccgcaa ggccaagcaa gagctcttcg ccatcgggtga cgacatctcc 180
 cgtttttcga gcacggttga agagaaagca aaatgggtgt tcgagaaact caaaaggccc 240
 aagaagtcgc ttctgatct actgcgcgag cacaaccttc cttc 284

<210> 28964
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-E2

<400> 28964

taccacgcgt tcggaccac acgtgcgcac aatgttgctg tgactcgtgg gccgtcttaa 60
gaggggggtg ttcaggtgct ctgttgcatg gcagttacgg gtgggttggtc cgcatgcaa 120
atatttccgt tatgaaaagt atacgagttg tatgaccttt agattattag gaaatttaac 180
agaataatag attgacatac ttatgatcaa ggttctgaaa tgggatctta tatggtaaag 240
agattaatat agcggatatt tgcacattat gtataatctt tcgtcgaggc ttctgtgct 300
tcatattaaa tttgtcctgg aaaaagggtg accattctaa ctctacatta atctgacaac 360
cctgttattc atttataaaa tatataattt a 391

<210> 28965

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-E3

<400> 28965

cttgtacgca tctgaagaca ttaacaatgg gcaagggaca actgggagaa tcattttttc 60
aagctttggc tgagtgccca ttattgactg ctttaacagt caacgatgct tctcttgga 120
gtggcattca agaagtcact gttaatcatg atggactgct tgagcttcat attttgaagt 180
gccatgcact tagaatatct gtcagatgta tcccaacttc aaatactgtc tttgaggcga 240
acaggcatgg ctcatgtatc actgaactgt cctcagttgc ttgagttgga cttccaatcc 300
tgccataagc tttctgacaa tgcgattcgc caagctgcta cagcttgccc attgttgga 360
aaactagaca tgtcatctcg ttcttggtt actgatgaga cattgcgtga catagctagc 420
tcatgttcga gtctttctgg tcctgatgca 450

<210> 28966

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-E5

<400> 28966

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aagcttcggc tgagtgccca ttattgactg ctttaacagt aaacgatgct tctcttggga 120
gtggcattca agaagtcact gttaatcatg atggactgcg tgagcttcat attttgaagt 180
gccgtgcact tagaatatct gtcagatggt cccaacttca aatactggct ttgaggcgaa 240
caagcatggc tcatgtatca ctgaactggt ctcagatgct tgagttggac ttccaattct 300
ggcataagct ttctgacaat gcgattcgtc aagctgctac agcttgccca ttgttggcaa 360
aactagacat gtcattcttg tcttgtg 387

<210> 28967
<211> 464
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3067-010-Q1-K1-E6
<400> 28967

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gtgagtctcc aagtctgtcc aagtaaata gaagctgtgct ccaagggacg acaatacatt 120
atgatggatc ttacanctcc tgtttcttgt aatgtcgttg gctagtttga ggtccaggat 180
tttgaatntg tgtcctttaa aaaanaatgt atgntgttgt aggaactctt tagttctggt 240
ggaaatttta ctgaataatg gaagacatct taggttcaag gttctgaaat gggatcttat 300
atctcaatga gattatgatg gtggatatct gcacatcatg tctaattctt gtcgagtctt 360
cctgtgcttc agattaaatt gtacctggaa aaaggtgtac catcctcact ctacattaat 420
ctgacacccc gttttacatg taaatatatt aatttttttt tttt 464

<210> 28968
<211> 415
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-010-Q1-K1-E7
<400> 28968

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gcagtactgc ctgtacgggc tctactgata cctcaagggc accctgagcg gccagttcaa 120
 caagatcttc taggctgtgt tggcgctgcc gtagtgtatt cgccccacac ttcgtactgt 180
 cggctgctcc ggatccttat gttgtgcttg atacacattc tactagtgtg caggcgaaca 240
 ggtatctcgt atgtatattt gagacctgtt ataacgctgg ctgagctcta ccgtatgtac 300
 cgtaggcgtc atgtcagcgc gcttggttaac gttgctacaa atagtccatt gttggcaaaa 360
 ctagacatgt cattttgttc atgtgttaat tgatgagaca ttgcgtgaca taatt 415

<210> 28969
 <211> 87
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-E8

<400> 28969
 gtggacaaca ataattatat ggttgctgca agccttcacg tgtttttgtt gcctctctac 60
 caactaagaa taaatcaagc tagcagc 87

<210> 28970
 <211> 343
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-E9

<400> 28970
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 gtggaggggc gatggcggcg gctgatgtgg agtaccgttg cttcgtcggc gggcttgctt 120
 gggccaccag caacgagtcg ctggagaatg ccttcgcctc ctacggcgag atcctcgact 180
 ccaaggtcat caccgaccgg gagacgggga ggtctcgcgg cttcggttc gttaccttct 240
 ccttcgagaa ctccatgctc gacgctatcg agaacatgaa cggcaaggag ctcgacggcc 300
 gtaacatcac cgtaaccag gccagtcctc gtggcggtgg cta 343

<210> 28971
 <211> 268
 <212> DNA
 <213> Zea mays

agcccagagc tcaagttcca taacgcactg aacgaacttg ggaagatgga ggtttcacct 360
gaacggaaca 370

<210> 28974
<211> 317
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-F12

<400> 28974

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ggggaaccaa accggagggtg tcgcttttgg aaacgattta gtcattggca agtctacgtt 120
cttcagggaa ggcaagggtgg gggactggga aaaccacatg accaaagagc aaggacagag 180
gttgatgac gttttggagg acaagcttaa gggatctggt ctctgtttt gattaattca 240
tatagcatgt tgcattgcat gaataatcat tcgcttacac atgtagtggt attttaatgt 300
attgatctt ttttttt 317

<210> 28975
<211> 453
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-010-Q1-K1-F2

<400> 28975

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cagctctatg agaagtacaa ggaccaaggc tttgaaatcc tggctttccc atgcaaccag 120
tttggtgggc aggagcctgg taccaatgag gagattgtcc agtttgcctg cacacgcttc 180
aaggctgagt accccatctt cgacaagggt gatgtcaacg gtagcaatgc tgcgcccac 240
tacaagttct tgaaatctag caaagggtggc cttttcggcg acagcatcaa gtggaacttt 300
tccaagttct tggttgacaa gganggacgt gttgtggatc gctatgctnc aaccacttca 360
cccctgagca ttgaaaagga tatcaagaag ctgcttgtga gctcttaatc agtatctggg 420
tgcaaaagct gtagaaaaac atgtattaac aat 453

<400> 28978

gcacaactct ctgcgagget tctctcccct ctgcgccctt cccgcagcac cctgctcgca 60

gcgctctcca caggacctgc tccgcgcgcg ccgcccccat cgcgggcaag gcggcggtgc 120

tgctgcatat tctcccggtc cccctccgg agccaccctc cctttctccg ggacctcgag 180

taactttgga gtaccagtga tgcaaagga cactagctct agcgatgttt ctgcttctca 240

tgtagggcgt gtaagacgtc gcaaacaatcc atctgaggct tccacagatg ggaatagagc 300

taatggacaa ccgttgcttg tcaatgatca gaacaagtat aaatcaatgc ttatccgtac 360

atattctaca gtatggatga ttggaggctt tgcctttatt atttatgtgg gtcattctata 420

tatct 425

<210> 28979

<211> 131

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-C12

<400> 28979

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tggttcttcg g 131

<210> 28980

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-C2

<400> 28980

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gccatgtcgg actcggagga gcaccacttc gaatcgaagg ccgacgctgg ggcgtccaag 120

acctacccgc agcaggctgg caccgtccgt aagaacggct tcatcgatcat caagaaccgt 180

ccctgcaagg ttgtggaggt ttctacctgc aagactggta agcatggcca cgccaaatgc 240

cactttgtcg ccatagacat attcaatggg aaaaagcttg aagatattgc tccttcatca 300

cacaactgtg acattccgca tgtgaaccgt actgagtatc agctgattga tttttctgag 360
gat 363

<210> 28981
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-C3

<400> 28981

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ggcttacaaa agggaaattg cagagaaaag cgaggaatga taacttgga cggaggacaa 180
ggccgtatag gctcttaatc tgtgatgacc tgcccttgat tttgtgaagg atctgtcgag 240
tgtttttgaa tataatgttt ctaaaaaata ttatactctt ttcctagtag cagctaaact 300
ttaacagctt aaattttctt ccatgactac cgaatatgtt tccaatttgt tcatgcatgc 360
gtgcaggagt cctttgtatc aaatttggac aaccactct tgttgccctag tataagcagt 420
ttattggcca gttcctttta 440

<210> 28982
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-C4

<400> 28982

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ccacaaccag accccaaacc cgcaccacag ccggacccaa aaccgcacc acaaccggac 120
ccaaaaccag aacccaaacc tacaccacag ccagacccaa aaccttcacc acaaccaggc 180
ccagagccga aaccgaagcc agcgccacag cctgaaccaa aaccagaacc caaacctaca 240
ccacaaccag acccaaaacc tggaccacaa ccagacccaa aaccagaacc caaacctaca 300
ccacaaccag gccagagcc gaaacccaag ccagcgccac agcctgaacc aaaaccaca 360
ctgcaaccag atccgaaacc tgagccaaaa ccaacaccac 400

<210> 28983
 <211> 129
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-010-Q1-K1-C5

 <400> 28983

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 agagcaatta agagaaaagc attcttatga atacagcctt aaattcaatt aaatgcaaca 120
 aggcttaca 129

<210> 28984
 <211> 450
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-010-Q1-K1-C6

 <400> 28984

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 cacattcatc ggcaactcca cctccatcca ggagatgttc cgccgcgtca gcgagcagtt 120
 cactgccatg ttcaggagga aggccttctt gcattggtac acgggtgagg gcatggatga 180
 gatggagtgc actgaggcag agagtaacat gaatgacctg gtggccgagt accagcagta 240
 ccaagacgcc acagctgagg atgaggagga gtacgaggag gaagaagagg aagatcctgc 300
 tgcctaagcc atcatcccaa gtgcttggtg aagatatgat gtcccttgta tcgctgctag 360
 tcagcactga gtcgtttgag gtgctcgtgg tgatgttagg tactagatgg gtgtcattac 420
 ttatgaatgc gatgttgctg tgacagaact 450

<210> 28985
 <211> 396
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-010-Q1-K1-C7

 <400> 28985

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cgccggagaa gatgggtcgc gtgatccgcg cgcagcgtaa ggggtgcgggg tccgtgttca 120
 agtcccacac ccaccaccgc aagggccccc cccgctttcg ctccctcgac ttcggcgagc 180
 gcaacgggta cctcaagggc gtcgtcaccg acgtcattca cgaccccggc cgtggcgcg 240
 cgctcgccaa ggtcactttc cgccacccat tcaggtacaa gcaccagaag gagctctttg 300
 tcgcagccga aggcattgtac acggggccagt tcgtctactg cggtcgcccgc gccaccctct 360
 tcacgggcaa cgtgcttgcc cttcgcggga tccctg 396

<210> 28986
 <211> 404
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-010-Q1-K1-C9

<400> 28986

cccacgcgtc cgcggacgcg tccgcccacg cgtccgacat tcttccttaa gcttgtgtcc 60
 tgggtgccgag ttcctcaaaa ggacaaagtc gttactgtgg ttcagtctct attgaaatga 120
 tattagtgtac aaggtaaaac tattccttta ttgttaatta ttttctatat gcatgatggc 180
 agtaactaaa atattggatt gtgttggaaca tacaacaagt tctagaagcc attagctaac 240
 cacataatca ctgaccttaa cccagtgtacc atttaacaac gtatataata taaatttaca 300
 ttagatgctt tattttttgca ctgtagacct attgcacata taagtgtctc ttagaactta 360
 ngttgttatt ttcagtctca ttattccatt ctttactaaa gaat 404

<210> 28987
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-D1

<400> 28987

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 ccgcagcgca tcgcgcggga ggtggccacg gacagcatcg cgcgcgccgc gtcagcggc 180

tcggacagcc ggagcatccg gaagaggacg tcgcggcggc tcacgcagag cccccgctcg 240
 tcgtcgttga ccagggccccg tggcggcggc ggcggctgtt caccacacc aagaaacacc 300
 tctcgtcgtc gttgaccaga agaaccaact gcgtgattcg cgttgctctt tggagactgg 360
 agacggcggc gtgactgctg gcaggcagac tcagacgaca ccatgattct gcacg 415

<210> 28988
 <211> 380
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-D10

<400> 28988

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 cggcgggctc aagtgccccg cattccgcaa ggtcttgggc ccccgccgcc gcggggctcg 120
 ccaaggtgcg ccaggcgtcc aaagtcgtac cggtaagcgg ggcccggcaa agccgcggcg 180
 gcggcttcgc cgtgcgggcg tctctgttct cgcccaagcc cgcggcggcc aaagacgcgc 240
 ggtcgaccaa ggtgcatgag ctgtacgtgt acgagatcaa cgagcggcac cgcaagagcc 300
 ccgcgtacct gtcctcatc gccaaagcaga cggaaaacgc gctgggcgac ctcgtcctct 360
 tcaccaacaa ggtgtacaac 380

<210> 28989
 <211> 366
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-D11

<400> 28989

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 gcattcaaag gttctgcgcc tctgaacctt tccgaccgtc ttcaccaggt ccttcgctgg 180
 gcccttgggt ctgtcgaaat tttcttcagc aagcactgcc cactttggta cggatacggc 240
 ggcgggctaa aattcctgga aaggttttct tacattaact ccatcgttta tccctggacg 300
 tccattcctc tcttggtta ctgtacctg cctgccatct gctgctcac ggggaagttt 360

atcaca

366

<210> 28990
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-D12

<400> 28990

cccacgcgtc cgcttgcttg ctaccagggg ttgtgtgagt gtgttagtga gagagaacca 60
tggcgacgca gcggttcacg gcggcgctgg tggcctgcct cctcctgctc ctggcgctgc 120
cggcgcgcg ggcgaacatc acggccatcc tcgccgggta caaggagtac aagctttaca 180
accagtacct gtcggagaca aaggtgtgcg acaagatcaa ctcgcggaag tcaacttcaa 240
taaccgtcct gtggctgtcc aacgaccctt tgacaacctt ggcttccaaa gccgggaatt 300
ggtttcccg 310

<210> 28991
<211> 60
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-D2

<400> 28991

cggacgcgtg ggcggacgcg tgggcggacg cgtgggcgga cgcggtggcg gacgcgtggg 60

<210> 28992
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-D3

<400> 28992

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tgggagcatt ccgggcgcgg ttctacatgg aaccagagat gtcggagaac cagacgtata 120
agagctccaa tggcacgaac ggaggcttgg tgaagcccct gcctgctgtg aacgagaagg 180
tgaaaagggt gatgttctac tgctgacaag gtgaccactt taacaaccat tcacatgctg 240

tagctaactt ggtaggttc agtaggggga ttagattagc tttctacagg aacgaagagg 300
 aaacgggatg cgtatttga tcatgaacaa tcaatctgat agcgatcgct gtagaatact 360
 cagaaatgcc tgtataataa gtcttgttag ttcaaa 396

<210> 28993
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-B9

<400> 28993

tcgcggacgc gtgggtgggg ataggcgtag gaccgttatg aggccaccac aagttcttag 60
 ggaggggaaca aagaagacag tttttgttaa ctttatggat ttgtgtaaaa cgatgcatag 120
 gcaacctgag catgtgatga tgtttttact tgctgaaatg ggaacaagcg ggtcacttga 180
 tgggcagcaa aggttgggtga tcaaaggaag atttgcccc aaaaactttg aagcaatcct 240
 gaggagatac atcaatgagt acgtcatctg caatggatgc aagagccctg ataccattct 300
 gtccaaggaa aatcgtctgt tcttcctttg ctgcgaacag tgtggatctt caaggtecg 360
 tgctccaatc aaagctggat tcgttgctca agtcggtcgt cggaaggcat gagcatctat 420
 atgtggatg 429

<210> 28994
 <211> 261
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-A1

<400> 28994

cccacgcgtc cgaaaccctc tggactaggg tttatctggg ctgcctcgt tagttgttac 60
 ccatctgtgt attcgattgt aaggtegatc tgtgtcacat gctagtgtcg cggtcattct 120
 atggttcac agactcatgc atcaaccagc atggactgta tgatcgatgg aagctgttac 180
 tcctgtcatg atttgttcta agttaatcct aaggaaaaaa ttgagctatt aggtgctgca 240
 aaacatacat acaacggcag t 261

<210> 28995

<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-A2

<400> 28995

cccacgcgtc cgcattctagg gagttctgtg gcagctgcat tggccagatt cttgggttca 60
catgtacggg ctttaaagtgc tacagatatc ggcttgggaa cagtaggctt ccaaatactt 120
gaggaaacat tgccaacaga agtagctctt tcccacatca acatcagtaa gaatcgtggt 180
gggatcagag cagcatatct tgtttccaga ttaatatgct gagcaccaga cttgtgtctca 240
gtcaatgcag cagggaacct tttaccacct gaatcattgg aagtcattct taactccttg 300
aagcaagggg cttgtaattt ggagcagagt gacctgactg gcaacatgca tttatcaagc 360
aatatttttc ctgcattcct tgaattcaag aagcatggaa agccaattct ggtagtacca 420
ccaaacttga gcacttttgc tccatatgat gatgacccat ga 462

<210> 28996
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-A3

<400> 28996

gccaaagtga ggaatcataa ttcataataat gagctttagt cacaaaagct ggtggacatg 60
aagaacagcc aggttactat aacgggtcaat ggcatgaaa tccgtatgga tcagttaggg 120
aatgttgatg accgtaaaaa atctgggggt caggcattgc aaataagatc ttgctcccag 180
tgtgccattt tggagtctgg tgtgctaagg cagcctatgc ggtcaagggg actgcttgc 240
cgaccttata tccattcaat gcttgctata gcagcagtct gcgtatgcgt ctgtgtattc 300
atgcgagctt tgctgcggat caattctgga aaatccttca agtgggagag gctggattac 360
ggtacaatat aattgtgggg acacacctga gccttgggggt attattaagt t 411

<210> 28997
<211> 341
<212> DNA
<213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-010-Q1-K1-A4

<400> 28997

cccacgcgtc cgactcatta gaccacatcc tgccatttgg aggcttggtc atgggatgac 60
 aggggtttac cttgtcgccc tcaactttctt gctttttcag actcgtgatg atgctaggca 120
 attcatgaag tatcttcac ctagatcttgg tgtcgaattt cctgaaagat cttatggaac 180
 tgattgtcgc atatatgtcc ctgatcatcc aaaaagcagg tttaacaatg tttatgagat 240
 cattttttga tgaatttggt atagctcata tccttggatg gtggngtaag gctataatga 300
 tacgaaacca accacttttt gtggtcttgg caattgggtt t 341

<210> 28998
 <211> 428
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-010-Q1-K1-A5

<400> 28998

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 taagcaagcc gccattattc cttgtctcctt gcaagcgcaa gctgatgctc acggcaacag 120
 ctgtgctcac atgttcgaga tgcactgaaa cgacagggtg ctattcgaga tgctcacact 180
 gtctggcgtg caagtcgggg cgcactggac ttccatcctc aagaaaagac acgtgtacag 240
 ggaggcgttc tccggcttca acgtggatgc ggtcgccaag tacaccgaga agcagatggc 300
 gtcgctgaac gccgactacg ggctggattt gggcaccgtc agaggaaccg tcaacaacgc 360
 ctgccggatt atcgaagtgc ggaggactt gggctcgctg gacaagtacg tgtgggcgtt 420
 cggaaca 428

<210> 28999
 <211> 462
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-A6

<400> 28999

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 tggcggggcg tcacctgcc cttccacct cgctcgctt cgcaatggag gtttccaggt 120
 ggaccccggc ggccggcctc ctgctcctgt tgctcctccc gctcggggcc acccgtcac 180
 gcgcccgcac gatggcgaga tcgccgtcgt cgtccactgc cgtgttccag ctccagggag 240
 acgtataccc caccggccac tactatgtca cgatgaacat tgggaaccca gcgaagccct 300
 acttcttgga cgtggacact ggcagcgatc tcacctggct gcagtgcgac gcacctgtc 360
 ggagttgcaa caaggtgcca catcccttgt atcgaccaac ggcaaaccgc cttgtaccgt 420
 gtgcaaaccg actctgcact gcactttaca acggacaggg ct 462

<210> 29000
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-A7

<400> 29000

cccacgcgtc cgccacgcg tccgcccacg cgtccgccc cgcgtccgcc cagcgtccg 60
 ggctcttctc cctcttgccg gtcccgaata aagagcagca gcgcaagagg tcggtagagc 120
 gagaagaagg caatggcggc cgagagcttc cttttcacct cggagtccgt gaacgagggg 180
 caccgacgac agctgtgcga ccaggtgtcg gacgccgtgc ttgacgcagc cctcgcgcag 240
 gacccgacg gcaaggtggc ctgcgagacc tgcaccaaga ccaacatggt gatggtgttc 300
 ggcgagatca cgaccaaggc gaccgtggac tacgagaaga tcgtgcgcga cacctgccgc 360
 gagatcgggt tcacctgcga cgacgtgggc ctgcagcccg accgctgcaa ggtgctgggtg 420
 aaca 424

<210> 29001
 <211> 226
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-A9

<400> 29001

ggtgctcaac agaacaaagg agaccaagat cactggtgcc aatgcttcca tgaaatcaca 60

tggeccctctt gtgcacctgt ccgcgcttcc agaaggcacc gttgtggact cgagatagcg 120
 acctctactc ggaatttact ttcagctctt gcatgtttgt ggttgtggcc atcatgtact 180
 gattttccct tttcaacagt tgtcgtgagg ctgtatcgtc tggagt 226

<210> 29002
 <211> 457
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-B1

<400> 29002

aaaggcagct gaggagaagc cctctagtgg tactgagtct gaagctgctc cctcaaccaa 60
 tgatgaaact cctccatctg tagaagacaa gaatggaact tctgaagtac aagatgctgc 120
 tgaaaatcca gaggcagaag aaactaacac tgctgcagag gaaacacctg ctgtagagga 180
 agcaagtgag actaccgagg aggaagaggc tgagaaacct gagatcaaga tcgaaacagc 240
 tccagcagat tttcgtttcc caacaacaaa ccaaacaagg cattgtttca cacgctatgt 300
 tgaatatcac aggtgtgtgg ctgcaaaagg tgaagatgca cctgagtgtg ataagttcgc 360
 caagtactat cgatccctgt gccaggtga atgggttgat cgcttgaacg agcaacgcga 420
 aaacggcacc tttcctggac cttttgtatc ctacaat 457

<210> 29003
 <211> 52
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-010-Q1-K1-B10

<400> 29003

ncaacgcgtc cggttggctt ctctcccct tccggttcg ttcggttcc tt 52

<210> 29004
 <211> 375
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-010-Q1-K1-B11

<400> 29004

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tggaatggcc gccgcggggg cagacgggga gcgcaggatc ggggtggcca tcgactactc 120

ggagagcgcc aagaaggcgc tggactgggc catcgacaac ctgctccacc acggggacac 180

cctcgtcgtc gtccacgtcc tgcaccaagg cgcgaggag accaagcaca cgctctgggc 240

caagtccgga tccccgctga tcccactctc cgagttccgg gagcccgagg tgatgcangg 300

ctacggcgtg cgccccgacg ccgaggtgct cgacgcgacg gacacggcag cgcgccagaa 360

gcagcttgag gtggt 375

<210> 29005

<211> 456

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-010-Q1-K1-B2

<400> 29005

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agctggactt cgagttcctc gggaacgtgc gcggcaagga gtggcgcggtg cagaccaacg 180

tgtacggcaa cggcagcacg gcggccggcc gggaggagcg ctacggcctc tggttcgacc 240

caaccgagga cttccaccgc tacgccatcc actggaccgg cgacaggatc atattctaca 300

tcgacgacac gccgatcagg gagatggtgc ggacggagtc catgggcgcg cagttcccggt 360

ccaagcccat gtcgctgtac gccaccatct gggacggctc cagctgggcc acctcggngg 420

gccgctacaa ggtggactac aagtacgcgc nctacg 456

<210> 29006

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-B3

<400> 29006

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CCAGCGCTC

tgaggaagac catgccaacc tttacgcgca cgagccagta agtttcacgg agagacaagc 120
ggggtgcatc cttagtttgg ctctatgttg tatcacctac tgcaaataac ttgctaccat 180
atgctacggc ccacatcatt atctggcaga ccatgcaaaa tatctacttg aagggtatcga 240
tcctgcacaa tgaatcttct ttcttggcat aggtgtgttg tgaaatctta tgctcttatg 300
agttaatgta aaacgtgtcg tgattatcaa ggctgttgag cttattttct atatgattgt 360
atgctgagct cgttatttat tattttgtat ggaaacacca tttttctaaa aaaattttgt 420
cactgggaaa ttggatcact aat 443

<210> 29007
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-B4

<400> 29007

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aatgctgagt tctagagcaa ttgtggactg tgtttgtaaa tggaggcaga tgctagcggt 180
gatcattttt cactgtacgt ttcttctctt tggttggttg tacgtgctct gctgcaattt 240
caagcgaaca gatttcaaga cctcgtgtca tttttttttt ataaatttgt tatttctgtc 300
aaaaaaaaaa aaaattatta aaataataaa agatgtaaaa cttaataac 349

<210> 29008
<211> 241
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-B5

<400> 29008

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agtgggcact taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaga aaatataaaa taaaaaaaaa aaaaaaagaa aaagataaaa 180
tataaaaaaa gttcacatga ttatcttgta ataccatata aaataatcta gtttaaagaa 240

<210> 29009
 <211> 173
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-B7

<400> 29009

cccacgcgtc cggagagagt aagacaggca ggcaggccat aacaaagatt ctcagactag 60
 agtacctgtt attttacttt aatatgtctc tctcagacta gagcgccttc ttttacttga 120
 atattggtga ctgcattggt ctttcacttt aaaatcggtg actgcattga tcg 173

<210> 29010
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-H9

<400> 29010

caacgccggc gtcttctct tcaacaacgc taccgtcgcg cgggtcacgg ccacgaagct 60
 cgtcgtccac gagatggact cgtcatataa ccacgactac atggcgccgg tggcagacat 120
 ctgatcgatg caatgcaacc acgccactct gcaccgcaac aaattttcca acacacataa 180
 atataccaag caattcccat ctgtcaaatt ttcttatttc cctgccatga ttttgggtctc 240
 tatttttctt gctggctact acttatcttc cagcactagt aatgtacgta ctggctagta 300
 actaggggtat ccagtgggaa gacgtgtagc ctttagttgt acatgcatgt atgatgctgt 360
 gtagcaccgt atcatgcaca ccaaaccaat gcatatgagt tataaatgtt ttt 413

<210> 29011
 <211> 435
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-029-Q1-K1-F10

<400> 29011

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tgcttgggaa atgctcagac ctctcatgga ttcttctactc cagacaatgc aatagctaata 300
gagttcttta caaaggcaac cggatgtttt cagaatgctg ttgatgtgga acctgcaaat 360
gagctgttca ggacgtcttt agacttgcaa atgaatgcac ctgaactgca tttggatata 420
caaaagcaaa t 431

<210> 29014
<211> 233
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-F10

<400> 29014

accggtgtct tcaactgacaa ggacaaggct gttgcgcata tgaagggtgg tgccaagaag 60
gggggtatct cagccccaag caaagatgca cccatgttgg ttgttgagat caatgaaggc 120
aagtgcacct tggatgtgaa cattgggtcc aatgctagtc gcaccacaaa ctggcttgct 180
ccacttgcta aggtcattca tgacaacttt ggcattattg agggcctgat gac 233

<210> 29015
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-A9

<400> 29015

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tcttgatgtt ggccctgatg ccacaaaaac attcaacgaa gcattggaca ccaccaagac 180
tgttatttgg aacggcccca tgggagtgtt tgagttcgag aagtttgcag ctggcactga 240
ggcgattgcc aagaagctag ctgagcttac aaccacgaag ggtgtcacta ccatcatcgg 300
cggcgcgac tctgttgctg ctgtcgagaa ggctgggctg gccgacaaga tgagccacat 360
ttcgaccggc ggcggtgcga gcttggaact cttggaaggc aagactctac ctggtgtcct 420
tgccctcgat g 431

<210> 29016
 <211> 339
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-007-Q1-K1-E6

 <400> 29016

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 ttctgttgga aaatctctcg tggaagagga taaacttgag ctcgcaactt ctcttattga 120
 gaaggcgaag gcaaagggggg tttctctttt gcttcccact gatattgtag tagcggacaa 180
 gtttgagct gatgctgaga gcaagattgt ccttgccact gctatccctg atgactggat 240
 ggggtcttgat gttggccctg atgccaccaa aacattcaac gaagcattgg acaccaccaa 300
 gactgttatt tggaacggcc ccatgggagt tgttgagtt 339

<210> 29017
 <211> 137
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-004-Q1-K1-A5

 <400> 29017

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 ccaaagtaca gcttgaagcc tcttgttcca cgcttgtctg agctccttgg agttgaaagt 120
 ctgatggcca atgattg 137

<210> 29018
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-027-Q1-K1-A8

 <400> 29018

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 agccagcttg ccatggcgcc caccgtgatg atggcctcgt cggcaaccgc cgtcgccccg 120
 ttccagggtc tcaagtccgc cgtcagcctc cccgtcgccc gccgcagcac caggagcctc 180

ggcaacgtca gcaacggcgg aaggatccgg tgcattgcagg tgtggccggc ctacggcaac 240
aagaagttcg agacgctgtc gtacctgccg tcgctgtcga cggacgacct gctgaagcag 300
gtggactacc tgctgcgcaa cggtcggata cctgcctcg agttcagcaa ggctcgggttc 360
gtgtaccgcg agaaccctca cctcncgtgc tactacgatg gccgctactg gaccatgt 418

<210> 29019
<211> 399
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-001-Q1-K1-B11

<400> 29019

gctagctcga tctactacta ctactactag ctggtacaca tactagccat cctgccagcc 60
agccagcttg ccatggcgcc caccgtgatg atggcctcgt cggcaaccgc cgtcgccccg 120
ttccagggtc tcaagtccgc cgccagcctc cccgtcgccc gccgcagcac caggagcctc 180
ggcaacgtca gcaacggcgg aaggatccgg tgcattgcagg tgtggccggc ctacggcaac 240
aagaagttcg agacgctgtc gtacctgccg ccgctgtcga cggacgacct gctgaagcag 300
gtggactacc tgctgcgcaa cggtcggata cctgcctcg agttcagcaa gctcgggttc 360
gtgtaccgcg agaactccac ctncctgtgc tactacgat 399

<210> 29020
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-F10

<400> 29020

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ccgttcctgg ggactcatat caatatatct gttatgtagc tcatccataa gacctatacg 180
acgagggtc tgatactaac atgtttaatt acattgagcg taacgtgttc gacgtcaaag 240
ccttacgcgc tatacatagc taggatctac taatttccac tgcttattca aaatctttgc 300

aagcttcaat ctacacggta tccaagttag aaacgcttaa cttgaacaag taccggtgtt 360
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 cgtgctat 428

<210> 29021
 <211> 412
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-H12

<400> 29021

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 gctggcgacg caggtgctca tcccggtcgc ggcggccgtg ggcatacgct tcgcggtggt 180
 gcagtgggtg ctggtctcca aggtgcccgat gatcgctcg ggggtgtggt tcgcgtcggc 240
 gcagggcgag gagtgcgcgc gcctggcgcg gtggcccgct gccatcctgg gcgggctgct 300
 cctgctggcc gcgctggcgg gcttcgtggg cgcgtactgg aaccggcgcg gcctgctggc 360
 cttctacctc ttcgccatgg cgtcgctcgt ggtgctctc atcgcgctcc tc 412

<210> 29022
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-B4

<400> 29022

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 gtgcttatgt gtggcggttg gtctctgggc tggcttagtc attggtttta ttactgagta 120
 ctacacaagc aatgcctaca gccctgtata agatgttgct gattcctgca gaactggagc 180
 tgccactaat gtcatttttg ggcttgctct gggttacaaa tcagtcatta tccaatttt 240
 tgctattgcy tttagtatct tccttagctt cagccttgct gccatgtatg gtgttggtgt 300
 ggctgctctt ggaatgctga gtaccattgc cacaggcctt gctattgatg cctatggccc 360
 tatcagtgat aatgctggaa gcttaagtct gtatgggtgc atcttatcat ata 413

<210> 29023
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-010-Q1-K1-A11

 <400> 29023

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cccacgcgtc cgattggcat tgcgctcatg ttggcttggt cttccataca ctttcacat   60
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tggtctctgg gctggcttag tcattggttt tattactgag tactacacaa gcaatgccta  180
cagccctgta taagatgttg ctgattcctg cagaactgga gctgccacta atgtcatttt  240
tgggcttgct ctgggttaca aatcagtcac tatcccaatt tttgctattg cgtntagtat  300
cttccttagc ttcagccttg ctgccatgta tgggtgtgtt gtggctgctc ttggaatgct  360
gagtaccatt gccacaggcc ttgctattga tgcctatggg cctatcagtg ataatgctgg  420
aagc                                           424
  
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<210> 29024
 <211> 472
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-058-Q1-K1-C8

 <400> 29024

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gtgtcttctt ctaccttatg agcaagcgct cactcgtgag gattccacca cgggcctcta  180
ttatgactgc tctgcccact tcctatgggt cggagagcgc actcgccagc ttgatggtgc  240
tcacgttgag ttccttcgag gcattgccaa ccctcttggt atcaagggtta gtgacaagat  300
ggaccagca gaacttggtc ggttgattga tatattgaat cccgaaaaca gggctgggag  360
aataaccatc atcacaagaa tgggacctga aaacatgagg gtgaaacttc cacacctgat  420
acgcgctgct ccgtgggccc gtcagatagg tacatgggtt actgacccaa tg           472
  
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<210> 29025
 <211> 400
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-014-Q1-K1-C5

 <400> 29025

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 ctatggtgga atccatggct gcgctggctc tgatggacca gctcatggcg catattgccc 120
 agtgtgagat gtttccgctg aaccttgccc tacaagagcc cattggctct gctagcagtg 180
 catctgaact gtcaccaaac ctatcataat gtttgtcgtg gaacatgttc cagctttcct 240
 tctatcgaaa ttctggctct tgctaagcag tttgcaattc ggaaccccca taaaccctcg 300
 actattgtac ctagagataa agtgaacgga tatcatgata gaaatgcatt tatgtttttg 360
 tgatgtggta ttttactgtt attttaccct tttttttttt 400

<210> 29026
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-003-Q1-K1-D11

 <400> 29026

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 gggcggcggc ggcggcgagg tgatggacga tgaagagagg gtgggcatg cgagatccc 120
 gaccagtttc ggtcccgagc tgcgcgcctg cctccgatgc cgctcgtca agacctacga 180
 ccagttcagg gagaacggct gcgaaaactg cccgtttcta gagatggaca gagagcacga 240
 caacgtcgtc aactgcacca cccccaactt cactggaatt atctctctga tggacccag 300
 taggagctgg gcagcccgtt ggttgagaat tggcaggctc attcctgggt gctatacact 360
 tgctgtctcg gaggagcttc cagaagagta tcaagggtt tgtcaagaca tcaacgtgca 420
 gtatgtgccg tccaagcgtg tc 442

<210> 29027
 <211> 416
 <212> DNA
 <213> Zea mays

ttagaaaaag gagaaagcac ttacagatca aaacggtgtc ctgcaaaagt tcatggaggc 360
atataaggag aaaaacatgg ctttgatgaa cgcgc 395

<210> 29032
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-F7

<400> 29032

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tgtccggtta aaatccaaac ttgatgcact tcagaagagt caaaggcagc tgtaggaga 180
acaattgagt tctactgacca taaaagaact ccagcaactg gagcaacaac tggacagttc 240
tttgaagcat attaggtcaa gaaagaatca gtcctgttc gattcaattt ccgcgcttca 300
gaaaaaggag aaagcactta cagatcaaaa cgggtggtctg caaaa 345

<210> 29033
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-G10

<400> 29033

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acgtgtggac cttcatcttg acagacgcaa gcttcaagaa cgaggaggcc acggagcagg 180
tgggcaagggt gaagattgtg gcatgtgatt ccaaattgct cggacaatag gcctgtgtac 240
cctcgaggtc aaggaaggaa gcttttaagt gcggcgggtgc ggtgtctgtc tgcgcgtcag 300
ctgtacacgc ctaggctacc tgccgaggcg gtgtctgtct gcttcagctg tacacgccta 360
ggctaccggc cgaaacggat ttcatttgcc ttcttcgtac tggatgtgta tcttcattta 420
ttttt 425

<210> 29034
 <211> 317
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-A8

<400> 29034

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ggtcacctgc acacctacag gttctgtgac aacgtgtgga cttcatctt gacagacgca 180
agcttcaaga acgaggaggc cacggagcaa gtgggcaagg tgaagattgt ggcatgtgat 240
tccaaattgc tcggacaata agcctgtgta ccctcgaggt caaaggaagg agcttttaag 300
tgccgccggg ccgggtc 317
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<210> 29035
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-H9

<400> 29035

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gccagatgct tctgatactg atgcttcctc tctactataag cttccgttct caagaactgt 120
ctacattgag aaaactgatt ttcgccttaa ggactcaaaa gactactatg ggctggcccc 180
tggtaaatct gtcattgctaa ggtatgcgtt ccccataaaa tgcacagacg ttatctatgg 240
tgatactcct gatgatattg ttgaaattcg agcagaatat gatcctttga agactttctaa 300
acttaagggt gttctgcact gggttgctga gccagcacct ggtgtcgaac cattgaaggt 360
ggaagtaaga ctattcgaga aattgttcat gtcagagaat cctgctgaat tggaggattg 420
gcttggt 427
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<210> 29036
 <211> 103
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-G10

<400> 29036

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gggggggtct tttaaaacgc cggcgcggcc tatgatgctt tcc 103

<210> 29037

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-G2

<400> 29037

ggaaataaaa aaacattttc cggaggagaa aaaacccccg agaagaagaa ttcctctcgc 60
tcgaggggtg ggaaagaagc ggaaggggag acgagtcgag aggaagccct cgcctccggc 120
acacgccatg gtggagactc gccggagctc cgcgcgccgc gccgggaagc gcacgtctcc 180
atcgccatcc tcttcgtccg tacctcccc gaagcgcccc aaggcggagt cctcggggtc 240
accgacggcg tccgcgcccc gcagggccga ggaggattct gtggcgggag cggcaccgc 300
gaggagcgcc ggctcggtcg atgacgcggc agcgatcgca cagaaagatc aaagagtcga 360
taagccgtct tccgctgttg cagatagttc aaagc 395

<210> 29038

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-G3

<400> 29038

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ggccgtgttt acaaagccaa attcgggtgat cagaaggcca tggctgtaaa gaaaataaac 180
ttctctgtat ttccaagcca tccttcagat ttgttcattg agttgggtgc aaacatttca 240
atgttaaadc atccaaacct tgctgagctt gctgggttact gttcagagca tggacaatgc 300
ttgctggcat atgaattcta ccgaaacggg tctcttcattg atttccttca tctgaaagat 360
gaacacagca agccattgtc ttggaacaac cgtgtcaaga ttg 403

<210> 29039
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-G4

<400> 29039

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 acacgccatg gtggagactc gccggagctc cgccgccgcc gccgggaagc gcacgtctcc 180
 atcgccatcc tttctgtccg tacctccccg gaagcgcccc aaggcggagt cctcgggggtc 240
 accgacggcg tccgcgcccc gcagggccga ggaggattct gtggcgggag cggcaccgcg 300
 gaggagcgcc ggctcggtcg atgacgcggc agcgatcgca cagaaagatc aaggagtcga 360
 taagccgtct tccgtgttg cataaagttc aaagcggaag aaggag 406

<210> 29040
 <211> 384
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-G5

<400> 29040

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 gttcgatgtt cctagcttcg tatctgaagg cagcaacatt ttcaagacca ggattgaagg 180
 tgcaaacatc gctgatacag ggcttacaga taaggatgac ttaattgtca ttcattcggg 240
 tgaatctcta gatctctctc gatcagatta tcttgataat gaactttcca gcttggcaaa 300
 ctggttgagg ggatcttata agaagtctac cggcaaacta gtcattccct tggagaatgg 360
 aaacagtctt actttgcaac ttga 384

<210> 29041
 <211> 383
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-G6

<400> 29041

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agtgcctccg ccttaccgtc cccgctgatg cagctgccgt cgacgttcgc ggagctcgtc 180
aagggccctt ccggcctcca gaaggctcatg cttcgcagcg ctgcgaactg ctgtgcccag 240
atgtatcttt atggagggtca agtaacatca tggaagaatg acaatgggga agacttgcta 300
tttctcagta gcaaggctat tttcaaacct tcaaaagcta atgctggtgg tttaccaatc 360
tgctttcccc tatttggatc aca 383

<210> 29042

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-G7

<400> 29042

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atccacacta acgaacgaac tcttgtccg atcacgagct agctgaggtc gacgatggcg 120
gctgtgctga acagcaggaa gacgccgcag gtggtggccg tgctggtggt ggaggcgctg 180
ctggcttcgt ccgcgtcggc ggcgatcacc tgccggcagg tggggtcgtc gctagcgccg 240
tgcattccctt actcgactgt gagggccagc tcgctacctt cgacgtgctg cagcggcgtc 300
aagagcct 308

<210> 29043

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-G8

<400> 29043

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ttaataaaatt atataaaaata tttatatata attcatatatt attattatgt gggggacctt 180
 tttttacgtg tgggtatattt tttgattcat tgcttacttt taatttttta ttaattgtct 240
 ttaattttat tgaatctata tttctttttt aatcttttgt tgtttattat ttagtttgta 300
 cttttttaat ctttttttagt aatatttata ttttatcttt tttgtttttt tagttatttt 360
 gttttgttta tttatgtttt tttattttta ttattatgta tttatttttg 410

<210> 29044
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-G9

<400> 29044

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 ggctcaagca gccactctac cgtcacccat gggaggatgt actgtacacc aagtgagaaa 180
 gccattcttt gcaaggcata ataaagtatt attatcgctt agagcttcca gttgcctagc 240
 ttccagttgc ctgtacactt cattaaatcg agcacttgca aaatagaaaag ccagagagag 300
 gaagacgaac atcactagac agcactagat tgcgtgttat atcgtgagtt gcaaattc 358

<210> 29045
 <211> 309
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-H1

<400> 29045

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 gcagggccaa atcgaacttg atagtgtctg ctatatattta gttaaagagg gtcacatcaa 180
 aacttcagtt gatggtgtat tcgctgtctg tgatgttttag gatcatgaat ggagacatgc 240
 tattactgca gctggatctg gatgcatagc tgttttgaca gttgaaagat acttagatgc 300
 ctattatct 309

<210> 29046
 <211> 94
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-009-Q1-K1-H10

 <400> 29046

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 aaggataaat aaaaacaatg cgtattacca tgaa 94

 <210> 29047
 <211> 226
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-009-Q1-K1-H11

 <400> 29047

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 gcgctatggc ctagactgat gtgctcaagg ttgtcatgtc ctgtgagggc tgagtctgag 180
 ctgtcatgct ggtcctgggc aagatgttag ggtttaagtg ctacca 226

 <210> 29048
 <211> 249
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-009-Q1-K1-H12

 <400> 29048

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 ggtgtgctgc gtacagtgcg tagtaccatg gcgaagaaag tggccactct gctggccctc 120
 aacctcctct tcttcgcctt cgccgacgca tgcggctgca ggtgcggcgg atcctgccct 180
 agtccaggcg gcggaggcgg tggcggtgga ggatctggtg gtggtggtgg tggaagccgt 240
 ggggggtggg 249

<210> 29049
 <211> 393
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-009-Q1-K1-H2

 <400> 29049

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 atcatgtcgg aggagaagca ccaccacttc ttcaaccacc acaagaagga cgaggagcag 120
 cccgccggcg agtacgggta ctccgagacc gaggtgggtca ccgccaccgg cgaggcgag 180
 tacgagaggt acaagaagga ggagaaggag cacaagcaca agcagcacct cggcgaggcc 240
 ggcgccatcg ccggcgggcg ctctgcactc tacgagaagc acgaggcgaa gaaggacccc 300
 gagcacgcg acaggcacia gatcacggag gaggtcgctg ccgctgcggc cgtcggcgcc 360
 tgccggtacg tattccacga gcaccacgag aag 393

<210> 29050
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-009-Q1-K1-H4

 <400> 29050

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 caagggacag gatggcaatg aggtgttttt tcgcataaag aggtccaccc agctgaagaa 180
 gctgatgaac gcttattgtg accgccagtc tgtggacatg aatgccattg cgttcctgtt 240
 tgatggccgc aggttcgcg ggcagcagac ccctgatgag ctggagatgg aggacggcga 300
 cgagatcgat gccatgcttc accagaccgg aggcagcgtt cctagcacca cctaaaagca 360
 tcagtcgcgg agcttcgttt tgctctcgt cctgcgtagt agtaaacaaa aaggaaaaag 420
 tctttt 426

<210> 29051
 <211> 300
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-H5

<400> 29051

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aatggcgctcg ctgtcgtgcg cctccacgct gccctggacc cccgcctcct acccgcgggc 120
ctcggcgggg cgctgcctca cggcctctcg cggggctccg tcgctgggtca tcgtcgccca 180
ggggaaggtc aagaagtacc gccaggtcat attgacagat gacatagaag aggtggggaa 240
gaaaggggat acaatgaagg tgcgagctgg attctaccgc aacttcttgc tttccaaggg 300

<210> 29052

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-H7

<400> 29052

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caaaaggagc gtccaagtcg tttgacggag gctgtagatc acttgaacgc tataaggggc 120
atgtaaacgg gaatggtatg aacgtatcta ccgattccag tgaagataaa gattcaaaca 180
actcagatga gaagtgtaac gagtttgcac ctgctgagtc ggaggactcg gtgtcaggtg 240
ttctatatga tatgtggcaa aaggaggtca tttctctaag gaaggcgtgc cacgaaaagg 300
atcagagcct gaaagacaag gacgacgcaa ttgagatgtt ggcaaagaaa gtagatactt 360
tgacaaaagc tttggaatca gatgccaaga 390

<210> 29053

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-G1

<400> 29053

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tcgaaatggc cttcttggta cagggaaca caaatgaaga actcccggaa ttctcctag 120
gtacctgccg actgaattac ctggatgcct ccaaggcagt gtccatagac gagtgctagg 180

accccaactg acctcatttt ttaaagccaa gtacaccaaa agacaaaaaa aaaaggctga 240
atccccattc cttgctgccg acacaatcgg caaccctagc ccagatgccc attttattgc 300
ctcaccgcaa aagtggggga tccattgcaa ccgttgtaca ttctcttctt gccgact 357

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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-H8

<400> 29054

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tcaactgcacg tgcagctgaa ctctaagtt taaatcttga aaccatggag aagttgaagg 180
aatcagaaga gctattggaa cgatgccttg cagtcaagaa aaagattcta cctgaagatc 240
atcttcaggt agcttatacg ttggtacacc tggcaagggt aacattgcac agagttgtaa 300
aggatcgga tgtaaacagc gatgtaactg catattacct cgcaaaagca aaacagttca 360
gcaatgattc aatcaggatt acagaaggac aattaaattc ttcaagaaaa gatcagaata 420
aaat 424

<210> 29055
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-D4

<400> 29055

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aagaacaagg gtaagggagg caagaaccgg aagcgaggaa agaacgaggc tgacgacgac 120
aagcgcgagc tcgtcttcaa ggaagacggg caggagtacg cgcaggtgac ccggatgctc 180
ggcaacgggc ggtgcgaggc catctgcgtc gatggcacgc gccgcctctg ccatatccgg 240
ggtaagatgc acaagaaggt ctggatcgcg gctggggaca tcgttctcgt cggccttcgc 300
gactaccagg acgacaaggc cgacgttatc cttaagtaca tgaacgacga ggcgcgcctg 360

ctcaaggcct acggggagct ttctgacacg ctcaggctca acgagggc

408

<210> 29056
<211> 311
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-D5

<400> 29056

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gataccaagg aaattgacaa gcatgacaga agggaagatg ggctatgaag actttgttta 120
ttttatatta tcagaggaag acaaatcatc tgagcctagt cttgaataact ggtttaagt 180
catcgatctt gatggtaatg gtattttaac ttacaatgaa atgcattttt tctatgatga 240
gcaattgtcc cgaattgagt tcattgttta aagaaccttt tggtttttgg tgacattttt 300
atttcagatt a 311

<210> 29057
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-D6

<400> 29057

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gagatcctct catgggcgtg cgctctggc tcggcacatt caactcttcc gaagaagctg 120
ctcatagctt acgactccga ggcacgcatg atccgaggca agaaggctaa agacaacttc 180
tctgatgagg tttctactgc tgtttctcag aagcgccgtg cttctgggtc tgcctctctg 240
aaagccccta atatggactt tgatgatgag aagcctatca tcaatctggc ttgtaacaat 300
ttgaccaact tatacgcatt attacttacc cttctgcat atgccattat aacatctttc 360

<210> 29058
<211> 54
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-D7

<400> 29058

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<210> 29059

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-D8

<400> 29059

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gcagagaata ccggggcccat taagtcagct acacaggact ctaaagggtga agatcatgat 180

ataatgagct ttgggtactgg gaaatgcgcg tttgccaagc gcctatatca tgaataggac 240

caaaacattg ttagcttcga ggcagtcgta ccaaaccatt gctatgcaaa ggggactttg 300

aatagaccgt ccc 313

<210> 29060

<211> 63

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-E12

<400> 29060

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aag 63

<210> 29061

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-E2

<400> 29061

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cgaaggggag acggttggtt gagttgaggc agccagccag caagccagtg gcggggcgctc 180
 tgctctcggt tgctttgcta tggggatctg cgcgtcgtcc aagcgcgtgg agcaggagga 240
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 gggaggggac ggccgtggcg cggcggtgga gcggacgggtg gccgtctccc tcttctcgca 360
 gaagggcaag aaggggcccc accaggacgc cgtcatcctc tgccagggat tcggcatgga 420
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<210> 29062
 <211> 282
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-E6

<400> 29062

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 cccagatccc cttgctgatt caatgcagaa cccagacag ccagtacgcc agcctctgct 180
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<210> 29063
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-E7

<400> 29063

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 ccgcatcgcg ccctcggagc tgggcgtect catgcgtcc ctcggcgga accccacgca 180
 ggcgagctc cgggacatcg cggcgagga gaagctcacc gcacccttcg acttcccgcg 240
 ctttctcgac ctcatgcgcg cccacctcaa gcccgagccc ttcgaccgcc cgctccgcga 300
 cgccttcgcg gtcctcgaca aggacggctc cggcaccggc gccgtcgccg acctccgcca 360

cgctcctcacc tccatcggcg agaagctcga ggcccacgaa ttcgacgagt ggatccgcga 420
ggt 423

<210> 29064
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-E8

<400> 29064

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ccgagctaca cacgaagact tgcacttata cagggtgttc gaccgtccaa accatcctag 180
aatatgattg gtggactgcg attaaattgc gtacatgatg catcagttct atgcatgctc 240
gctgctgtct gttcggagggt catcaactcg ggacctggac taagggcctt gtcgttcgct 300
caacccttat gaaaaagttt ggctttctaa agatgtagta gaagtactca tttattccct 360
gccaatgaa catttcaa atctcgatgg tggtaatgaa aaatctgatg ttt 413

<210> 29065
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-F10

<400> 29065

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gtcgtcgcg agttcaacgc cgaccagctc ctcaccgagc gtccccacgt ctccgcgctc 180
gtccgcgaat cgctcaccaa gcgcgcccgc gagttcaaca tcgtcctcga cgacgtcgcc 240
atcaccacc tagcctactg gcaggagttc gcgcaggccg tcgagaagaa gcaggttgcy 300
cagcatgagg ccgagcgctc caggttcctt gtcgcgcgcy ctga 344

<210> 29066
<211> 74

<212> DNA
 <213> Zea mays
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 gctggactgc aaga 74

<210> 29067
 <211> 118
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-009-Q1-K1-F12
 <400> 29067
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<210> 29068
 <211> 210
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-009-Q1-K1-F2
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 cgcacgtttc tatgcaaaaa aaaaaataat 210

<210> 29069
 <211> 110
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-009-Q1-K1-F3
 <400> 29069
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aaccttttgc agtactagca acacgcagaa gattagtacc gggaaatgcg 110

<210> 29070
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-F4

<400> 29070

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gttctacgac aagaaggagg ccgccaagct cgccgcccag gccgcagcct tagctgctgc 180
cccgtccccg gtccgcgggc ccccgccgtc ccaggatgcc ggtaccccc gcgcagctag 240
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cttgaggcca cttggcagca ttagcaagaa gaaggtgcag cttcatttga agatcaagaa 360
agacaagaga aaagctagga agaattggaaa gttttctttt aagaagtaga cgagtgtatg 420
atgaa 425

<210> 29071
<211> 88
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-F5

<400> 29071

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taaaggaata atgaatgtag tgtttttg 88

<210> 29072
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-D3

<400> 29072

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CCAGGCGCG GGC GGAGGCG CTTCCGCGG

ccttctgtga cgcgcttgcc gaagagagcg ccaaggcgcg ggcggaggcg ctttccgcg 120
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cggcgccact gcgacagcaa cgcggccgc ctgcgccga tcatgcggag ccacgtaatg 240
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tgttcgcg 428

<210> 29073
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-F6

<400> 29073

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ctcagagtaa actccgtctc tctccaactg gagtcgctca agactcgggtt aatctcgatc 180
gtgcaaccat gagctccata gccaggatgc ggtgcaaggg aactggtgac caaccaaggc 240
aggctgtgga actggcagca tggccccata agcgttgctc gatctcctca tcgctactgg 300
atggagagca gttggctagt tgttagcggg ttccctagtt tctcttctc ttgtgttccc 360
cgtttcagtt tgcttatagc cccgaagact cttttcttcc gtagtgtcgg aatgcccaag 420
gtctgtccct gtggatgtgt tgcgtaactg ggat 454

<210> 29074
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-F7

<400> 29074

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acggcgctctc ctgggcgcga gagctcgact acttcgccgc ccgccctttc ctcggaaga 180
gcttcgtcaa cggataccac tggctcacac ctgatgtctg aaaaacacac aaacacacgc 240
gcgagagtca tgagacacat cgattacagc aaaccagatt aatttattcg tacagcataa 300
agacagaata agacaccatt tacaagccac tgaatatgta tagtgatcca ctgggcgcga 360
agtcagattc aagattcatt tcgtc 385

<210> 29075
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-F8

<400> 29075

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cggagtagcg ggcggccgga atcggcaagg ggagaaacgc agcagcaagt tttgggcggt 180
tttctgttat ttcacttctc tgggaaatgg tctctctgaa ttaaactctga tcgtggatgg 240
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caggggtggc acctgtaata acctctcctt catctccgag attccttcct ttcactcct 360
agattcattc ctttcatctc tgcttcttcc agaatttggg taatttcagc tttatgcgag 420
tg 422

<210> 29076
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-B2

<400> 29076

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taactccaag atcctatcca aggtaatcga gtactgcaac aagcacgtac atgccgccgc 180
cgccgccggc gccgcctcga aggcgggttc cgacgacgtg ggtgccgact gcgccaacag 240

caccgccgtc tgcggtgagg acctcaagaa ctgggatgcg gacttcgtca aggtcgacca 300
 ggccacgctt ttcgacctca tcttggtgctgc aaactatctg aacatcaagg gtctactcga 360
 actgacctgt cagactgctg ctgacatgat caagggcaag aca 403

<210> 29077
 <211> 68
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-B3

<400> 29077

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 ggggggat 68

<210> 29078
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-B4

<400> 29078

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 t 421

<210> 29079
 <211> 55
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-B5

<400> 29079

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<210> 29080

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-B7

<400> 29080

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ccttctcgtt tccattcatt tcgtcgtggt agcgtaaatt acagagcgtt gtcggtcgtc 360
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<210> 29081

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-B8

<400> 29081

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ctgctgtcta gttggtgtca tatggagagg aacactatat gtggctaata taggcgattc 180
cagggctggt actggcggtc taggtagatc aaacaagatc gtggctgagc cactcacaag 240
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ttctcaaatt gtggttctca agcatggtgt ttggcgcac aagggcataa ttcaggtttc 360
aagaacaatt ggagatgctt acttgaagag gcgggaattt gctcttgatc catctatcac 420

<210> 29082
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-B9

<400> 29082

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tcttcacctc actaacaccg agctagcagc tcgctctgtc ctgcaacaat ggccgctcgc 120
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ctcaagagca tgacgggccc gctcggcgccg ggcgtcagca 400

<210> 29083
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-C1

<400> 29083

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cgcggttacc tccggaccag ccttcgggtgc aagcaggaga ccgtcaggat gagggggcgcc 300
gcgtcggcgc agaagaggct cccaagcggc aagttcgggg gcggcgctcg cggaaggggc 360
gcgcagtggc gacgaatgtc gctgccggcg atgctgtct 399

<210> 29084
<211> 194
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-C11

<400> 29084

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cgctgtattc atttatctga gggggacttt tactcaatgc tcatataatg ctcataactct 120

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cgatttttct ctca 194

<210> 29085

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-C2

<400> 29085

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cccttcctt gtgggcattc ttgacgtccc tgtcttctc ggctgccgca gatacatgat 120

ttcgtcaaac attggtgaag tcgcttctat attcctaact tccgccttgg gcattcctga 180

gggtttgatt cccgtccaac ttctatgggt caatctcgtc accgacgggc cccccgaac 240

tgctctaggt ttcaatccgc ctgacaagga catcatgaag aagccaccta ggaggagcga 300

cgactcactg atcactccct ggatcttggt ccgctacctg gtaaacggtc tccctcgcgt 360

gctaccgcgc ccttgactct gttgggtcgt catcttttgg agac 404

<210> 29086

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-C4

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gcgcggggcg cgggcagctt gtaggcgttc gatcgcccat gtagggcaac tatacatctt 240

tggcaggtct ccatcatcct ccgtgggaga gaagatgcat ggtaatggag tgcgtgtgta 300

tgtatgtgta tgcccatggc gcgcgcgcgc ggctctgggc gagtcacagt agagatgcaa 360
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taaaaa 426

<210> 29087
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-C7

<400> 29087

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ttctaaatca cgatcatcat tctccccgga ctataatact tacaggcaac agcttactac 120
ccttatgcag acagcgctga agaactctgaa tgaacatcct gatgcttggc cattcaaaga 180
gcctgtggat tcacgggatg ttccagacta ttatgatatc atcaaagatc ctattgattt 240
aagaacaatg ttaagaagag tcgactcgga acaatattat gtgaccctag agatgtttgt 300
agccgacatg aagagaatgt tcagcaatgc aagaacttac aattctccag atactatcta 360
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<210> 29088
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-D1

<400> 29088

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gtttatttta tattatcaga ggaagacaaa tcatctgagc ctagtcttga atactggttt 180
aagtgcacg atcttgatgg taatggtatt ttaacttaca atgaaatgca ttttttctat 240
gaggagcaat tgcaccgaat ggagtgcacg gcacaggaac ctgtggtttt tggggacata 300
ttatgccaga tgattgatat gattggacca gagaatgaga gctattttac tctacgggac 360

ttaaaacggt gtaaactctc aggaaatata ttcaatatc ttttcaatct gaacaagttc 420
atggcatttg aaa 433

<210> 29089
<211> 184
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-D10

<400> 29089

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gctgtgtttg aagctgaatc gcgggctgca taaaacacgg gtgaagcatc agcagttgag 120
gttgtcaacc atcaagtgcc tgactcgagc cttatagtat gtaatcttag agatctttct 180
tttc 184

<210> 29090
<211> 59
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-D12

<400> 29090

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<210> 29091
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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-B10

<400> 29091

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acataccaat ccatggagat cgagaaggac gctgagggtg ggactggctc tgggtggttct 180
ggcagtggct cttaatggct aagtggctct aagtcaagaa gttcagggtc cagttcttaa 240
ggagttggca atgctaattt 260

<210> 29092
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-D2

<400> 29092

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cgacctaccc cggccggacc ggcaggcagc acaacatgga cctcgccctg ctggagaagg 180
ccctgctggg cctgttcgcc gcggtgtgtg tggccatcgc cgtggccaag ctgagcggca 240
agcggtagcg tctcccaccg gggccccccg gcgccccgt ggttggaac tggctgcacg 300
tgggcgacga cctgaaccac cgcaacctga tggccatggc gaagcgggtc ggcgacatct 360
tcctgctgcg catgggcgtg cgcaacctgg tgggtgtgtc gaccccgag c 411

<210> 29093
<211> 267
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-H12

<400> 29093

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cttcagctag gatggtgggc gcgcctccgc aaggaccaca atgcctgttc tggctacgcg 120
ctgatgaaca atgaaaatga accactgtta cctgcaacag catcagcagc agcatgtgca 180
acccaaaagg agccgtattc ccagtagaa attttgtact ggacaaaagc acgggttcaa 240
aaaggttcgg cccttaaaaa ttgctct 267

<210> 29094
<211> 305
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-H2

<400> 29094

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 aattttgcta acctggttta gcagcatgtt ggtggacagc gtctggtata gtgcacgcgc 180
 gtgctctgag gctgtcttct gtgttccact taaataatag ttatttttta tgttctcaaa 240
 gtctaattgat tacaaatgtg tgctgttttt ttgttattta tgttgcttta tcagtgtttt 300
 atttt 305

<210> 29095
 <211> 396
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-H4

<400> 29095

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 gtggtgcaga tcgtgttcca ggacacgggc atcttcgccg ccgaggagca cccatgcac 180
 attcacggct accacttcta cgtgctggcc acgggggttcg gcaactacta cccgcgcgc 240
 gacgccgcca ggttcaacct ggtggacccg ccagccgca acaccatcgg agtgcccgtc 300
 ggctgctggg ccgtcgtgcg ctttgtggcc gacaaccct gggtgtggct cgtgcactgc 360
 cacatcgacg cgcactttac gggagggctt gtcattg 396

<210> 29096
 <211> 301
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-H5

<400> 29096

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 attagaaaag ccggaagagc cttttgaact cttttttttg ctaacagtgg tgttattgtg 180
 aaacagagtt ttgtgtgtat gtaccaacaa ctaaaatgta aacacgacat tatcatagtt 240

gagtacagga ataattatct cttaaaaaaa aataatttat taaaataata aaaaatggtc 300
t 301

<210> 29097
<211> 312
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-H6

<400> 29097

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gccgaggagg aagcgagcgc gcgaaagtat caggaggagg catgggtacc ctggggcgcg 120
cgatcttcac ggtgggcaag tggatccggg gcacggggca ggccatggac cgtctcggat 180
ccaccatcca gggcggcctt cgcgtcgagg aacaggtttc aaggcatcgt acaatcatga 240
atattttctga agaaagagcc aaggatccat atagatgtgt ttgttgctcc aagtgcacat 300
ttcattgggg at 312

<210> 29098
<211> 313
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-H7

<400> 29098

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atggagctgt acgccaacga ggtgcccga accgcggaga acttcgcgc gctgtgcacg 120
ggcgagaagg gcgtgggcaa gtccgggaag ccgctccact acaagggctc caccttccac 180
cgcgatcatc ccgagttcat gtgccagggc ggcgacttca ccccgggcaa cggcaccggc 240
tgcgagtcca tctacggcga gaagttcccc gacgagaagt tcgtgcgcaa gcacaccgctc 300
cccgtgtgct tct 313

<210> 29099
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-H8

<400> 29099

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cagaagttca ggaaccttca gttcatcctt ggggaggtct ttcgacaaca aaggatggca 120
tcctaactct tcttgattgc ttcataaatg caaaatctct tcatgtgatc cagaatgtat 180
ttgacaatgc acgtgcgaga gaacgtgaac gtgagatgct ttaccctgat gcatgtggtg 240
gcggtggcag aggatggatt agcccagtga tacctaacta tggcaggggc catggaacac 300
gagatacctg tgccttgcac actgcacacc tttcttgtga tactctggtg gatttttggg 360
cggctctggg tgaagaaact agatcatctc ttttaaggat gaaagaagag gacttcattg 420
aaagacttat gcacagattc gacagc 446

<210> 29100

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-H9

<400> 29100

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catcgatggc gcccaaggcc gagaagaagc ccgcgggcgaa gaagccggcg gaggaggagc 120
ccgctgccga gaaggcgccg gccgggaaga agcccaaggc ggagaagcgt gtcccagcag 180
gcaagtccgc cggcaaggag ggcggcgagg gaaagagggg ccggaagaag ggcaagaaga 240
gcgtggagac ctacaagatc tacatcttca aggtgctgaa gcaggtgcac ccggacatcg 300
gcatctctc taaggccatg tccatcatga actccttcat caacgacatc ttctagaagc 360
tcgtcgtcta ggccgtcaag 380

<210> 29101

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-A1

<400> 29101

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 aggttttcgt gggaggtggc ctgcgcgcc tgggacccca tcttcccgta cctcaggtct 240
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 aggctcaagc attacttgac tgaatgcatt gcaaaatatg gtgatgacta ccaatacttc 360
 actgatccat ggttgctcaa gatttggatc ctctatgcag atgcaattga ggacttcccc 420
 agtgtttaca acc 433

<210> 29102
 <211> 212
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-009-Q1-K1-A10
 <400> 29102

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 gtgtgggctc atgttaaggc catgtgggta acctacctta caaagtttgt acatagatac 120
 aagagaagca cgttataacg agcaagagaa cttttacatg aatctgtcca acatgcttct 180
 acataggaaa agaagcccca ttatttaca tg 212

<210> 29103
 <211> 226
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-009-Q1-K1-A12
 <400> 29103

aaaaaaaaa aagaaaattt aaataatcaa ttttctatac aaaaacataa atcaagatcc 60
 aacgcgggca ttttcaaaaa actaggcagt acacattacg ctaggtggct tcagattatt 120
 caacttgcta cacggttcca attcaattga ttaccatata ctcatcctc gtggcgcacg 180
 ccactcacca tacgcagtgg acaaaccccc acaacttatt accaat 226

<210> 29104
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-A2

<400> 29104

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ccggtgggcc gacgccgccg ccctaagcca ggtgctgagg ctcttggttg tctcttcgcc 120
agcgaggagc acccagcagg acaaggcaac aggctggttg aatatggacc aacaaggcat 180
gcatgaccat gaaaggggtcc acgttggttg atttgaagtc ccgccttcac cggattccag 240
ctacgacaac cctgttcttg ggaatgaaga cgaatgccgg gagccccac tgatgccacc 300
tcctctgcag cacacgtgc tgagcttacc accaagccaa gaacagtcga gcccgctgcc 360
ccagccccag accgtggttc tgaaccaact ttacatcgag atagagaaca 410

<210> 29105
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-A3

<400> 29105

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tcctgctact ctgtccgtg atctggtctg gtgagatcgg ggatcggacc gtcgactcgg 120
cgagacatgg cggactgggg ccccggtgtg gtgggcgtgg tgctgttcgt gctgctctcg 180
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accaacggca aggccatctt cgtccacacc ctctcttct tcgccgcctt caccatcctc 300
acgctcgcgc tccacatcca catctacacc ggctagctag ctagctagtg cggagcacat 360
gccgacggtc tggactcgcg gaggtctcag atcagaaagg aacgccggcc g 411

<210> 29106
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-A4

<400> 29106

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ctctcatggc gaccaccagc gccaggaggc cgagcggccc ggtgctctcg gccgcgcact 180

accgctccgc ctgcgcgacg cgcgtctcgc tcgccgggca gcccgtcagc gtcagcgtgt 240

cctcgtcgtc gcggggccgg cggacctgca tgtgctcgcc gaccaaccac ccgggctcgt 300

tccgctgcag cctgcacaag gagcgcgtca agccgggtgc cgggccccac ggccacgggc 360

acgggcacgg gcacggcaag ccgagctcgc cggcgtcggc cgtcagcccg ctgtgcg 417

<210> 29107

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-A5

<400> 29107

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cttgcgtggc ttgcagctgg catggccatc ggcattgttg gtgatgctgg agtcagggcg 120

aatgcacaac agccgaagct ttttgtgggc atgacacctca tcctcatttt cgcagaagcg 180

cttgcctctgt acggtctcat tgttgggaatt atcctttcat cccgtgctgg tcaatcccgg 240

gcagattaag tgcactacca ttctgcaatt accgtactgt ttattatgct attctaagag 300

aattgaaacc ctatgccctt gtctagttta ttcttgttac catgtattaa tgaaacaatt 360

tgtagctgaa ggaagggtgac acttccaacc atgttggttt tggc 404

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<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-A7

<400> 29108

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tacgtccgag tcgtcgcac caggccccctc gattcgcggc cggcggcgcc accaaccaag 120

ctcatacatc tgaattgact agtccaactc agggatttct ttggggacca atcaaactca 180
agaactaagt ttcattgtctg atctcgacgt ccagcttcca tctgcttttg atccgtttgc 240
agaggcaaat gctgaggact ccagtgtctg tgctggatca aaggactatg tgcacgtgcg 300
tattcagcag cgcaacggaa ggaagagtct gacaactgtt catggcttga agaaagagta 360
cagctacaac aagatcctca aggatctcaa aaaagagttc tgctgcaatg 410

<210> 29109
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-B1

<400> 29109

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aaggaggcga acaacttcct ttggccattt aagctgaagg caccgctggg aggtctgaag 180
aagaagagga accactatgt ggaggggtgt gatgccggta accgtgagaa ttacatcaac 240
gagctcatca aaaggatgaa ttaggttcac gatcaagctc tattgtgttc taagaaactt 300
tctgtgtctc cccaatttta cattattagg aagcggatga atatgcatgc agttttgttg 360
tttggaacta gatgtgtatg gaagaaacat gatctttttt ctcggaagtt t 411

<210> 29110
<211> 313
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-F4

<400> 29110

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gacattgaag actacaaatg ttcttggtta gttgtgcaag ctcttgagcg tgctgctgag 180
aaccaaaaaga gcattctgtt tgaaaattac ggaaagtctg atccagcgtg tgttgcaaag 240
gtgaaggact tgtacaaaga gcttaaactg gatgaggttt tccatgagta cgagagggag 300

agttacaaca agc

313

<210> 29111
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-F5

<400> 29111

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cgcgtgtgac cgagatggcg ctgccgaatc aggggaccgt tgattacccc agcttcaagc 180
tcgtcatcgt cggcgatggg ggaactggta aaactacatt tgtgaagagg catctcactg 240
gagagtttga gaagaaatat gaaccaacca ttggtgtgga agttcattcg taggatttca 300
tcactaactg tggatatgac aggttctaac tgc 333

<210> 29112
<211> 234
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-F6

<400> 29112

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attgtggggg aggagtgatt atgtcggttt tgttttcatg tttatatgtt ttttatttat 180
cttgttattt ttttttgata ttttcttctt gttgtttatt atatttttta tttt 234

<210> 29113
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-F7

<400> 29113

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gcacatagcc gtacgtacca ttccgtatgc ttagttgccg tattgttggg aactgtttgt 180
gcgtgtattt ctgtagacg ttccccgctg gtttaggctg tgttttatat tgctgttttg 240
tctttttgaa tgttgagacc atacaactgt cgatcattat ctcataattg ttgtaaaaat 300
actataattg ataataaat tttattttct tggttttttt ttatttttta cttgtttttt 360
attttt 366

<210> 29114
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-F8

<400> 29114

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tcatggcgcg cttcaatcgt ggctactctg atggggaatt gatccgttat ggctcgtggc 180
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atggaactga tttgttacca aggtttaagt ttccgctacc gttggacggc ctgactggta 300
ctttgccctg ttgactgttt gagaacgtac tgccataggt tacttaatac ttgctgcttt 360
ttgacggttc tgtacatatt gtttgatatt ttatttct 398

<210> 29115
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-F9

<400> 29115

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acgctctccc ccgtggaacg ctcatgggcc gtggccgtct cgggtgtccag ctgcagccgc 120
gggcacctga ccagccttcg cccgtccctc ctgcacgtag ccggcgcgcc agcagcctgc 180
agctccatgg atcggccgct tacccttcga tctggtaacg ccagtaggca gtagtagcta 240

gagaacaacg gaggaatatt atgtaacatc actgtcactt gtgcgtgtcc aagctagggt 300
 ttttatgtag agagaagcgg agcttacgag cgagacag 338

<210> 29116
 <211> 154
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-G1

<400> 29116

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 aattggttca gcgagcacat acatgattta tgacattgca tgtgctatct atgataaaaa 120
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<210> 29117
 <211> 381
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-G10

<400> 29117

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 ttacctttt ctcatgctcc cgtgcttagg gttttgaatt gggcatcgag gccatcttca 180
 tactggtgac agaagaaatg ttttgtgtat atttctgtcc aaactcggct gtagctttca 240
 gagtttgtga atagttgaca tgtttatatg gtctgtgaag ttttgaaatg tttaatgggc 300
 cttacagggt tgtacctttt ctcatgtact ccgcgcaaaa ttgtacaaca atgtttaatg 360
 ggccttatac gtggaccctt c 381

<210> 29118
 <211> 280
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-G11

<400> 29118

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aggtgcacct tagatcatga ctaccgtgct tacggttttg aatagggcat cgagagtctc 180
ttcatactgg tgacctatga aaagtatatgt gtatataact gtccaaactg ggctgttgct 240
ttcatagttg gttaatcttt gacatgttta tatggtctgt 280

<210> 29119
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-G12

<400> 29119

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gccgggcaac cctaccaa at cgccaaggc catgggaagg gacctgaggg tccacttcaa 120
gaacacaagg gagacagctt ttgcgcttcg caagctgcct ttgaccaagg ctaagcgata 180
ccttgaggat gttattgctc acaagcaggc aattcccttc cggagatact gtggaggtgt 240
tggtcgcacc gcacaagcaa agtctcgcca ctccaatggg cagggtcgct ggctgttaa 300
gtcagccagg ttcatattgg atttgctgaa gaatgctgag agtaacgctg atgtgaaagg 360
cttggacgtg gacaacctct atgtttcaca catccagggtg aaccaagccc agaag 415

<210> 29120
<211> 196
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-G2

<400> 29120

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agggctaaag gagagcaaga tgaagcttat ctacagtac ctacaggatc aggatgtggc 120
atctcggaag aacatgacgc atttgaatga gtatgcgttc ggggtgatgc aattataatc 180
ccattatctt atgcca 196

<210> 29121
 <211> 295
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-008-Q1-K1-G3

 <400> 29121

 ggcgaaaggt actataaccc tagtgccgt ggcctggta ggggccgtgg ggggttccgt 60
 ggtggttaca acggcggtta tcggggacca gctgctgctc cagcgatcga agaccaggct 120
 cagttccctg ccttggccta agcacagctc gtgttctcgc tcaagattgt gtcacttttg 180
 cggagtgcgt cagtcagtcc tagtggtgtt gtcaccaagc ttgctttccg gattatgtgt 240
 atccaactat ttctgatatt atgtactggt gtgctcgtga ttgcaatggt ttgct 295

<210> 29122
 <211> 312
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-008-Q1-K1-G4

 <400> 29122

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 tgcaccgaca cgctgcgctc gagcccgccc gagccgccc ctagatccat ggcgcggtg 120
 ctaccgacgg ccgcggcagc ggccatcgtg gccgcgtcc tgggtggcggg cctgccggggc 180
 gcccgggcgg cgtctgcctc gccggcgggc gacgacgcgc cgtcgtacag gaaccacacc 240
 gctggcggtc gcgatgggtg gttcttcgac gccaacacca acgccttgct cgggaactac 300
 tccgactggg cc 312

<210> 29123
 <211> 345
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-008-Q1-K1-G6

 <400> 29123

 gggccaccgc tgcggcgccg cccctcgacc ctccgctgct ccgcctgcgc tggagaccat 60
 ccatctggaa gagatctctg atttacggga tggacggagc caagccagtg gcggccggga 120

agcaggacct ggaagaggcg ctgctccgta tctgtgcagca gcaccaccac cagtcacctct 180
 gccaacgaca acaaaccgag cgtgcaaaga aggacgcctt gaagagcgcg gtgcgggtcg 240
 gcgatctcct cgtggacacg gtcgacggcg ggggtgcggga gctcttcgtc aacgagaagc 300
 gcattgagct tgagggccgc gcgctgctcg gtacgatecg gcggt 345

<210> 29124
 <211> 205
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-G7

<400> 29124

cggacgcgtg ggctgcgtc gcggtcgcgg gcggctcgag tcgcacgcca gatcggaatg 60
 cgcgccgccc cgctctctta ggccgcggaa cggaagctag gtgcgtcaca cgccgtggcc 120
 ggtcgcggtc accggaccgg acgcacaggg gcgcgctacg tgcagtcacg ggccatgatg 180
 gtctctgtcc tcgatgtgct ggccc 205

<210> 29125
 <211> 333
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-G8

<400> 29125

agcgactagt cgaaggcggc ggccggcggcg atggggagcg acctggagac ggagaagaag 60
 aagaccccg tggcgtgat gcccatcgcg aagcctctcg ctggaaagaa gctctgcaag 120
 cggaccctca agctcgtgcg acgagcctct gaggccaagt gcctcaagcg cggagtcaaa 180
 gaggtagtca agagcattcg ccgcgggaac aaagggttgt gtgtgattgc tggaaatatt 240
 tctcctattg atgtgattac acacgttcca atactatgtg aggaatctaa tgttccttac 300
 atatatgttc catcaaaaga ggatcttgcg acc 333

<210> 29126
 <211> 315
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-F3

<400> 29126

cggacgcgtc cgccacgcg tccggtttct agagccctct ctgccactcg tgatcccact 60
agggacaatg cctgccctcg ccaagcccgc ctcccgccacc gccaaagcccg ccgcgggtcc 120
gaagccgaag cctgccgcg ccaagccgaa ggccggccacc gctggtgcct tccacccgcc 180
ttacttcgag atgatcaagg aggtatcac gccgctcaag gagaggaccg gctccagctc 240
gcaagcgatc gccaaagtatg tgggggacaa gcacggcgcg tctctgccgg cccatttcat 300
gaagatgctt tccat 315

<210> 29127

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-G9

<400> 29127

cgtaataaaa ccacttgacc gtcacaatct tctacgcca gagactgtgg aatcactatt 60
tgttttgtat agaatcacag aggattccaa gtataggag tgggggttggc agatctttca 120
ggcttttgag aagtacacaa aagttgattc tgggtggttac acatcattgg atgatgtcac 180
aagcctacct ccttccacga gagataaaat ggaaactttc tttcttggag aaacattgaa 240
gtatttgtat ttactgtttg atgaaaacaa tacccttccc ctagataagt atgtgttcaa 300
tacagaggcc catcctcttc cagttatgcg gtctgcagaa caggcttcac attctgtgta 360
gtttcccaag tttatagctg ttgtaccatg gtgagaagta cagatctgtg acaaatatac 420
ttgacaacat agttggagga 440

<210> 29128

<211> 245

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-H1

<400> 29128

cccacgcgtg cgcgcacgcg tccgtgtacg cattcgtggc gtgatctcgt acatgctacg 60

gtgggaccag tacgggcacc tctgtgcta catcacgtac ggcgtttaca aggacagggc 120
catgtaccat cgcgccttct ggcactgcta ctgtctggct cgcttgctac aaacacgcgt 180
ttagttaatt gtacatgtcc tgcgctcgct tacgttcatt ctctgtggta tgtactccat 240
gatac 245

<210> 29129
<211> 401
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-008-Q1-K1-H10

<400> 29129

cggacgcgtg ggtctgacgt cgtgtgtcat gacagctgtt gggtcacggc cagtgcctta 60
agtgaggaag aagagtcaac tattcgcatc cagcatacac ctcatctagc aggtgtactt 120
catatatgac tcatagtga ttaatatgac ctctaattgg ataaatggct ggcattctctc 180
tcttcttgat gacttcaa at ggagttaaca tcatactgat ntgagatcct tcatccaatg 240
tgcacgggat gacgctcgga cttacttgaa tactatgtaa cagctcacia taaattgcgg 300
tcttatatat catattgtaa tcgaacttct gatgatggat tctgttgaga tgattgccat 360
ggatttttat aaaccatttt gaatgtgtga caagaataac a 401

<210> 29130
<211> 268
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-D4

<400> 29130

cccacgcgtc cgcccacgcg tccgcaaatt ttcaggccgt tctcgtgggt tcggctttgt 60
aacttttgat gagaagcaag ccatggagga tgctattgag ggaatgaatg gactggactt 120
ggacgggagg aacatcactg ttgataaagc tcagccacia ggacctggta gagaccgtaa 180
tggtgaccgt gattatgacc gcgagcgtgg atctcgttat gaacgtgggtc gtgactatgg 240
tggtgggctg gcaccgcgag gtggtggt 268

<210> 29131
 <211> 278
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-008-Q1-K1-D5

 <400> 29131

 caaggatctg ctgcaggtgc accccaactc ttacgccctg gtgatcagca tggagaacat 60
 cacactgaac tggacttttg ggaacaaccg gtccatgctt gtgtcgaatt gcctgttccg 120
 gatgggtggc gcggccatcc tgctctcgaa caggcggtct gacaggcgga ggtccaagta 180
 tgagctggtg cacacggtgc gcacgcacaa gggcgccaac gacaagtgtt ttggctgcgt 240
 gacacatgag gaagatgagt ttggcaagat tggcgtgt 278

<210> 29132
 <211> 303
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-008-Q1-K1-D7

 <400> 29132

 cccacgcgtc cgcccacgcg tccgctcgcc cggacccctt ccgccagttg ggagtcgtat 60
 acgaacctac ctacttccaa ggaagcacca gtcattccatc acctgttaca tgtttttatg 120
 ttgcagcact agtgggtgtt aattgtcagc tgcgatcatg tgagaacctg acctggtaca 180
 ttatgtatat aagaagaata agaacctgtt aacttatatg gtatagtatg taagttcatg 240
 gcagaatgtt cttgatgggt ggattcgtgc gcagttgaac agttgctggt gttgtaaatgt 300
 gat 303

<210> 29133
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-008-Q1-K1-D8

 <400> 29133

 cccacgcgtc cgcattggaat caaagagcat tttcttgtca ccactgaact gaagttcaat 60

tgctttctcc	tcatgccgat	tgttgacaaa	ctaccagcac	ttctaagaca	agaccttgag	120
tcagctttcg	aagaggaact	tgatagcate	tttgatgtca	ctcagctgcg	ccagtcactt	180
gggcagaaga	agcgcttggt	ttgatctaata	tttttatattt	gtttttttttt	tatttttttaa	240
tattttatatt	tttttgtttt	ttatatattat	tttttttttat	attttttttta	tttttttattt	300
tatatattttt	ttatgttttta	ttttatttttt	ttattattttt	ttttatttttt	tatatattttt	360
tattttttttg	atttttttttt	ttttatatatt	ttttttttttt	ttttttatttt		410

<210>	29134
<211>	185
<212>	DNA
<213>	Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-D9

<400> 29134

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caaatggatc	acccaagggt	ggtgttactg	gctattgcat	gggaggtgct	ttatcaattg	120
caagtggagt	attagtccca	gaggttgatg	ctgttgtagc	tatctatggg	tcaccttttt	180
ttgag						185

<210>	29135
<211>	350
<212>	DNA
<213>	Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-E1

<400> 29135

cccacgcgtc	cggtttgctg	agattgctct	acagctggag	attcccagta	ccaagactct	60
ctgttttagat	gttacaaccc	agtggaacac	aacttatttg	atgctgttgg	ctgccttgga	120
ctataagcag	gcgttttcta	cactggagac	atgtgatgat	aattacaatg	aatctccttc	180
agcagaggac	tggaagaaag	ttgaggctac	ctgtaattac	ctgaaactgc	tatatgactc	240
tgcacatagt	gtcatggctt	catcaaatcc	tactgcaaac	atctgtttcc	atgaagcttg	300
gaaaattcag	cttgagctag	ccaatggcac	agaacatgaa	aattccatct		350

<210> 29136

<211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-008-Q1-K1-E12

 <400> 29136

 gtaaaaaaac aacagttaga agggaaacttc aagaattcca ttcagcattg gaggaggcaa 60
 aagctgatat agttggtctc tgggcactga atttccttat taagaaggga ttgcttccta 120
 agagcctgtc acaatctatg tatgtctctt tcctggctgg ctgcttcggg tcaatccgct 180
 ttggactgga agaagctcac ggaaaaggac aagctctgca gtttaactgg ttgtatgaga 240
 aaggggcttt tgtgttgac tctgacggaa aattctcagt tgattttaca atggttgagg 300
 atgctgtaga aagcctgagc agggagatac tgacaatata agcaaagggc gataagcctt 360
 ctgccaatc tcttctccag tcccgtgcaa cattgacaca tccattaaga atggcattgt 420
 aga 423

<210> 29137
 <211> 233
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-008-Q1-K1-E2

 <400> 29137

 cccacgcgtc cgcccacgcg tccgcccacg cgtgcgaggg ctteggatcc cacacccagg 60
 aaaggagaag agagggtcgg aataatggcg gccgaggagg gtgccgtgat cgcggtccac 120
 accaaggacg agttcgacgc ccgcatggcc tatgccaagg agcagggcaa gctggtggtc 180
 atcgacttca tggccccctg gtgcagtggg tgccagatga tggccccctg gta 233

<210> 29138
 <211> 344
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-008-Q1-K1-E3

 <400> 29138

 cccagaggta cgcggcgccc acgccacgtc cttggaatta ttcacgcccg cgacagacgt 60

gtacagcttc ggggtgctcc tgctggagct cctgacgggc cggacaccgt tccaggacct 120
catggagctg catggcgacg acatccccag ctgggttcgc gcggtgcgtg aggaggagag 180
ggagacggag tctgtgtccg ccggtggagg tggagccgag gagaagctca cggcgctgat 240
caacatcgcc gcgacgtgcg tggctgcgga cccggccagg cgccctacca cggcggagct 300
gcttccgatg gtgagggagg ccagggccta ggccatgtca tcgt 344

<210> 29139
<211> 108
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-E4

<400> 29139

cggacgcgtg cgcgacgcg tggggctgaa ttgtcgatat gcaagacttt gtgctaactt 60
aggatatga tggtaatttg atggttaata gatgaggtcg tacatgtt 108

<210> 29140
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-E6

<400> 29140

cggacgcgtg ggggttaaact aactagttgc acaggggcgg catcttggtg agtcgagtaa 60
catttccttg gataaagtga cgttgctgca gccttcgcga acatctgac tctatttcaa 120
gaaaaggaaa aatcagatta ttttgggtcc ctctacttct gatgccccga gttcaaaaga 180
tacatttcag gctgaaaata taaagtcagg tgagagtaaa gttctaattgt cttcatcttc 240
caacaacatt atcactgtgg caaatgacag gctgcactaa gctcttcaga caacaaatac 300
tgtcagaagt ttctcttatg tatggacact taatggacaa aattcctgtt agtaaattta 360
tgttggagct 370

<210> 29141
<211> 237
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-E7

<400> 29141

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gatatgccct ggttcccatg attgctaggg gtgttatgct tgggtgcagac cagcctgata 120
ttctgcacat gcttgacatt ccgccagcag ctgaagccct taatgggtgtt aagatggagt 180
tggttgatgc tggcgtttct tttctgaagg gatgttgtgc taccactgat tgttgtt 237

<210> 29142

<211> 435

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-008-Q1-K1-E9

<400> 29142

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ttgcgcaagt atttggtcag tctccgacct aggagccttg agcctcgtgt agcagtgggg 120
tttgcatggg acattgcccg agctatggaa tgcttacatg cacatgggat cattcatcgt 180
gatcttaagc ctgagaatct gttgctgact gcagaccaga gaacagtaaa acttgttgat 240
cttggttttg ctagggaaga gacactaacg gagatgatga ctgctgagac aggaacatac 300
cgttggatgg ctccagagtt gtacagcaca gtaacactga ggcatggaga aaagaagcat 360
tacaaccaca aagtagatgt ctacagcttt gcaatttgtt tgtgggaact cctncacaat 420
aaactgccct tcgag 435

<210> 29143

<211> 218

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-F1

<400> 29143

catatcataa ttatatatat atgcatgcta tctactatga tcgatcgcta ctgaccttc 60
ttgcatctat ctgcatgcat attataaaat aatgtcatat tgatgcaacg ctccatgcaa 120
gtctttccaa ggcgtacgta ctatatcaaa tcattgtaat ttccttacat gtatatgtat 180

gtgcttgtga aagatacgta cctatatata tatgtgct

218

<210> 29144

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-F10

<400> 29144

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catttacttt ttccacacac gcaaatacaa agttctcaag gaatctagtg aagattctgc 120

gagaagctgg ccaagttgtg aatcctgcct tagaatccat gtccaggctc tcgaactcaa 180

cgaggaggagg caattttcgg tcgagaggca gaggtggggtt tggtaaccgg ggccatatgt 240

ctggatcaaa tacctttcct ttaggaggaa gaaggccata ttgatgtgtg caaaagaact 300

gtgggagtat gggactatct gtatactact cggcattaag tgcattcttt gggaaatttc 360

tgagaaattt cccctactac caggattgat aacaccatcg attttcgcta cagtacctgg 420

agcttcttat atgaaag 437

<210> 29145

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-F11

<400> 29145

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catttacttt ttccacacac gcaaatacaa agttctcaag gaatctagtg aagattctgc 120

gagaagctgg ccaagttgtg aatcctgcct tagaatccat gtccaggctc tcgaactcaa 180

cgaggaggagg caattttcgg tcgagaggca gaggtggggtt tggtaaccgg ggccatatgt 240

ctggatcaaa taccttttct ttaggaggaa gatggccata ttgatgtgtg caaaagaact 300

gtgggagtat gggactatct ttatactact cggcattaag tgcattcttt tgggaagttt 360

ctgagatatt tcccctacta ctaggattga taac 394

<210> 29146
 <211> 346
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-008-Q1-K1-D3

 <400> 29146

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 ttgggggtggc gccaacacag atgcaggcag gcttggggaa ccagcagttg ggttcgacat 120
 ccatgatggg catgcctcca cagatgtatg gcggcggatc gcaggcagcc atgatgtacc 180
 cgcaacaaat gccagtggcg gcgcagcagc cgatgtatgg tgggtggtggt cgtctggcag 240
 ggtacatgca gcatcctgct gtggccgctg cacactacta cagcaacctg tggactgctg 300
 gaatgtatgg gtaccccggc gcgaacgggg ctgtccagaa catgta 346

<210> 29147
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-008-Q1-K1-F12

 <400> 29147

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 gtccgtccgt cgtcggcgcc ggcgaaacgag tagagatgga ggagacggcg gcagcggcac 120
 cggctgagaa ggcgtcgtcg tacaggtaact ggggtgcggga agccaccggc gacgccgcgc 180
 cgctccccgt cccgcgcaag ctcgaccccg ccgccaatgg gaacgggaac ccgccgcccc 240
 tcgggtccgt ctggaatcag gctggaactt gggaggaaaa gaacctcaac tcatgggcta 300
 atagtaggat aaaggatttg ctgggctctc taggttcatt gaagttccct acagggaatg 360
 catccgttga tgaagtgtcc aagtgtcat gcgatgcctt tcaggtcact gtccgcaaca 420
 tgaagagagt agga 434

<210> 29148
 <211> 180
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-008-Q1-K1-F2

<400> 29148
 agaccatata ctgcatctct atgattacta actactgtgc tccatcgaca ctcatggctg 60
 tggcgttcga gcgcatgaat gagatcagct acgttatgct gatgccagtc gccttgctat 120
 tcctcaaaag gcgtacgggc tatcatgact gactggcact tacttacgtc tatgtgtatg 180

<210> 29149
 <211> 328
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-B7

<400> 29149
 cccacgcgtc cgcccacgcg tccgcccacg cgtccggctt caacacggac gagtgggcgg 60
 cggggcggcgc gccgcccgtg acgctgcaca tggacggcgg cgtggacctg acgctgccga 120
 tggagaacac gctgatccac agcagcgcca cgccgctggc gtgcctggcc atggccgagg 180
 cgccgcagaa cgtgaacgcc gacgtgaacg tgggtggcaa ccttcagcag cagaacgtgc 240
 gggtcgtcgt cgacgtcgcc ggctcgcgcg tcggtttcgc gagggagccc tgcaactgag 300
 cccctgaatt cgtccgtgcc ctatgcac 328

<210> 29150
 <211> 377
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-B8

<400> 29150
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 gtacaaaaat ctgttatattg cctgatagtt tatctggagc agtttcattt tacatatgac 120
 tgtaatttgt gagaatgtac atcttacgat ttttgttgac cagtattcat aggttttttag 180
 ttagcaatgt gttgttggcc cgttgctagt ccttgtaata caagcccacc tgttttttttt 240
 tgcgcatggc aagacttaac ctggaaacat tttgtagtac attttatattt gtatcacctg 300
 ctctatacac gagttttctt ggaacatcgg aaataataat gccctccagt atcttgcgac 360
 caaaaaaaaa ttaaagg 377

<210> 29151
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-B9

<400> 29151

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 gaagccaaaa gaattgagga acaaaatgaa aggaaacgca tgatagaatt gcgaagactt 120
 gagaaagagg aggagaaaag agctagagaa aaaatccgcc agaaattaga agaagataag 180
 gctgaaagga gaaggaaact aggattgccca ccagaagacc cagcagctgc caaaccaagt 240
 gcaccacctc ctgttgaaga gaagaagagt gcattacctg tcaggccagc caciaaggca 300
 gagaggatga gggactgtct aagaaatctc atgcaacaga ataaggatga tgatgccaaa 360
 gtgaagaggg catttcaaac actgcttact tacattggaa acgttgctaa aaa 413

<210> 29152
 <211> 351
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-C1

<400> 29152

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 gttcaagctt ctgggcacaa tagttgaggg tggacaggaa aaagttctgt ctcatattcc 180
 taaaattgta tccaacattg ccagtactgt aatggagctc ctgtcccctg tcccagatcc 240
 ttggcctcag gtagtagtgc atctttcttc tgtgtggtca atattttggt actttatcat 300
 gatgaccggc tggaggaaca cggggcgtgt atgagtgatc aagaacaggg a 351

<210> 29153
 <211> 250
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-C10

<400> 29153
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gatttagtta attattatgg ctggttagcgt agcctgacta tgcttggtga aacctgaact 180
ccgtgtgagc gtagtgccag ctaatatggt gctgcttgct ttttgctgag ggtgtgactt 240
tgcatttgat 250

<210> 29154
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-C12

<400> 29154
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gcaaagacca agaaatatac tgcattaaat tgcttgggaa cccaagctt ggtgaaggca 120
aacctgagaa ccaaaacat gccataatct tctctgagg agatgcagtt cagacgatcg 180
atatgaatca ggataactac ttggaggaag caatgaaaat gagaaattta cttgaagaat 240
ttcataatgc tcatggaaaa catggcatac ggaagccac aatcctaggt gtgagggagc 300
atgtattcac ggtgagtgac tcttcgctgg cgtcatttat gtccaaacag gagactagtt 360
ttgttacttt ggggcaacgt gttcttgctt acctcaaatt cgaatgcact atggacattc 420
tgatgttttt gatcggt 438

<210> 29155
<211> 211
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-C2

<400> 29155
ccaataatta agtgcactcc tatggctcgg actctatgaa aaaggacctg actactcatt 60
gggtcatata taatttatat aaagaaaacc taaaacatta actaaaacat atataaatta 120
actaaaaacc tcaaatacat ataataaaaa atattacgac cacaacatat atagtttcag 180

attgttacta agtttcaatc atagttataa c

211

<210> 29156
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-C4

<400> 29156

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tgtaagcttc atcttcagcc atgggtaagg agaagtccca catcaacatt gtggtcattg 120
gccacgtcga ctctggcaag tctaccacca ccggccacct gatctacaag cttggaggca 180
ttgacaagcg tgtaatagag aggtttgaga aggatgctgc ttttatgaac tagcttgcct 240
ttaagtttgc ttgttttgc tctcttagttt attgttgttt gttatatgtt tatttttctt 300
ttgttttttg ttcttgttgt tttttatttt tctgtttcat tttctttttt tttttttttt 360
ctttttt 366

<210> 29157
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-C5

<400> 29157

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atgcacaggc attcctgtga agaagttttc actgtcctca aagggaaggg tacgctcttg 120
atgggatcaa gctcactaaa gtaccagggt cagccacagg aaattccttt ctttcagaat 180
accacatttt caatccctgt aaatgatcca caccaggttt ggaattctga cgagcacgaa 240
gatttgcaag ttcttgtgat catatcgaga ccgcctgcta agaattttt atatgatgat 300
tggagcatgc ctcatacagc cgcggtactg aaat 334

<210> 29158
<211> 145
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-C6

<400> 29158

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aaggggaaga agggagcggc cggtcgcaag gtcggctggc caaggaagaa gtcggtgtct 120
aggtccttga atgccgtgct ccagt 145

<210> 29159

<211> 197

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-C7

<400> 29159

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ccaaggagat cgttgcctcc gctcccctcg tcgtcttcag caaaacttcc tgccctttct 120
ggctcccgtt gaaaccattg gttcaagaac ctggaaccag gctacaaggc cattgatttg 180
aataaggaag gtgttgg 197

<210> 29160

<211> 197

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-C8

<400> 29160

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gcagccttag cttggaatgt gttgcatggg ttgttatatt tatgatgagg aataaattta 120
attaactttg cataatttcc aatgtatttg agtgagccga gataaacgta tgagacttgt 180
ggatacaaat ggctaata 197

<210> 29161

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-C9

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atcgcagaag atgttcttgc aaaagaaata aggcagatag tcggtgataa atttacgcac 240
caattagcaa tggagctcat caaggaatgg taccttgctt ctcaggccac aacaggaagc 300
actggatggg atgacgatga tgcttttggg gcctggaagg acagtcctga aaactacaag 360
gtgcatatcc aaaagcttat ggctcaaaaa gtgtctcatt cgctctctga t 411

<210> 29164
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-B5

<400> 29164

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gatgccagac aacttatagc ttctggcggg atgccatcat ccactcagc tacagtgaca 120
gcactttcag tggctgtggg aatccaagaa ggctttcgta gtgcaacatt tgcaactgca 180
ctagtctttg catgtgtggt tatgcatgat gcttttggag ttcggttaca tgccggaaag 240
caggcagagg tgctgaatca aattgtctat gagctgccag aggaacaccc attatcagag 300
acaaagccac tgcgtgaaat ccttggacat actgttcttc aggttgtggc cggttgcac 360
cctggaatac ctatggctgt cgttatgctt ttgtcttttg ggaggtctta gtcaagtgtt 420
g 421

<210> 29165
<211> 299
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-D11

<400> 29165

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gccacgatat aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaga aaaaaaaaaa 120
aaaaaaaaa aaaaaaaga aacgcatata aaaaataata aaaaataatg tagaggggca 180
tataagtaca aaacattacg aaagtttaaa aaaaaatgaa tagcgaaaaa ataatggcaa 240

cacaaatcaa tatagaagag catcatataa aacctttcaa aatggcaaaa catagaaaa 299

<210> 29166
<211> 164
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-D12

<400> 29166

tgattttgtt aagaataaac tatttttttta cttaaaaata acaacaaaaa aaaaagagat 60
tgtgattata tacaataaaa aaaataatta catattataa ataaaatatt aaatttgaat 120
ttatttttta atttaattac tttaaatttaa tctattatatt atat 164

<210> 29167
<211> 188
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-D2

<400> 29167

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tgtgtggga tttagtctag caatgcactt tgtgtctgag cgaataactta taaattatca 120
atgatgaaaa ccaggctgtc gctttatagg atccagcatt actatacgcc atgattcgcc 180
gggcatgc 188

<210> 29168
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-H6

<400> 29168

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tggatttcgt gtcgccaaga tgacgaagcg cactaagaag gcaggaattg ttggcaaata 120
tggaaccagg tatggtgcta gcttgcgtaa gcaaatcaag aagatggagg tatctcatca 180
ttccaagtac ttttgctagt tctgtgggaa gtttgctgtg aagaggaaaag cagttggaat 240

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ttgggggtgc aaggactgtg ggaaggtgaa ggctggtggt gcttacacca tgtacactgc 300
tagtgcggtc accgtctgga gcacgatccg ttttctgatg gagcattctg aatcatgatt 360
ttatcttttt atatt                                     375

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<210>      29169
<211>      103
<212>      DNA
<213>      Zea mays

<223>      Clone ID: LIB3067-007-Q1-K1-H7

<400>      29169
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aaagttgacc caatggatat cacaccggcg ctaccacaac aagcaccaga agccaatgcc 120
aacgtgggtca cctcgtagct gcaccagttc cgttgatagt tccgttgctg gcgacttact 180
gacctctcgg taagtatgat aggatagcaa tcttggttaag tccttatatg aaccaatcaa 240
ttagttgtgc ttgtaactgg tagattgttt agcgaggag gcgacctcag gcaaacattg 300
atattgaacc cgtagctgt aacgctgtgt aacagtagaa gaaagaagct gaagtcgcca 360
ggtaatttat tgttaaactg tatgatgccg ggtaaactca tgcccttctt gttcaagcta 420

<210> 29172
<211> 273
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3067-008-Q1-K1-A1
<400> 29172

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cgaattccga cacgtatgtc atattcggcg aggctaagat cgaggacctc agtcccagc 120
tgcagacca ggcagcagag cagttcaagg ctctgactt gagccagatg atctcgaatc 180
cagagacgtc tggcccgga caggaggaca atgatgagga ggacgacgaa acttgtgttg 240
aggccaagga cattgagttg gtgatgaccc agg 273

<210> 29173
<211> 136
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-008-Q1-K1-A10
<400> 29173

cacgccaagc gcgtcaccat catgtttaag gtcatgcagc tcgcgcgcct tataggatgc 60
gggctcgcct aagcagtacg gttgatgcgc atgcttgcta ctcaatttgg tgcttaattt 120
atcatattat ggatga 136

<210> 29174

<211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-008-Q1-K1-A11

 <400> 29174

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 cgttcgacgt gtctctagga ccggcggtcc attctcacga tgaagcatca gtcggaattg 120
 gctcacggcg ctaacgcggg ctggacatcg cgggtgcggct gtcgagccca tcaaggagga 180
 gttccaatcc tctgtacgcc gatttctacc agctcgcggg agttgtggcc gtggaggtca 240
 ccgggtgggcc tgagattccc ttccaccccc gtagggagga caagcctcaa ccttcacctg 300
 agggccgact tcctgacgcc actaagggtt ctgaccacct gaggcaagtt tttggcaagc 360
 agatgggctt gagcgatcag gacattgttg ccctatgtgg tggccacacc 410

<210> 29175
 <211> 308
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-008-Q1-K1-A12

 <400> 29175

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 aacattagca agtacacaga gaccgaatgc gtagagaaag tacagtttat tacaacagct 120
 caagggcaag gacgcgaacg ccaagatgtg gaacatactg gcctacacat ttaccacgta 180
 tcgaatcaaa aagataatgc tagcacatga agattttgga aagattgcac tagaactcgc 240
 tgtatgagat tccagatctc atgaatcgtg ttgacaagat catattgacc ttacttatga 300
 agaacctc 308

<210> 29176
 <211> 353
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-008-Q1-K1-A2

 <400> 29176

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 tgcactgccg ccattgctca tctccccgtg gtgcggaggt ccacccgggc gccaatgggt 180
 ctctctcttc gttggcagac tgagtggcat ccaatcctga atcaatgagg ggctgggggtt 240
 tgctcgtgtt atcgcttcat gttctttcat gcctggtagt ggcgttgctt ctgggtcaaac 300
 aagctcttat gtgctcacag aggttccatc tacagattta cctcttgaaa gtg 353

<210> 29177
 <211> 298
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-A3

<400> 29177

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 ttatctctga tcgggagacg cagaggctcc gcggcttcgg cttegtcacc ttctccacgg 120
 aggaggcgat gcggaacgcc atcgagggca tgaacggcaa ggagctggac ggccgcaaca 180
 tcaccgtcaa cgaggcccag tcccgcggcg gccgtggagg ctgcagctgc ggctacgggtg 240
 gtggccgtgg aagcggccgc tacggctgtt gcgggcgccg tgatggctgc tgccggcta 298

<210> 29178
 <211> 130
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-A4

<400> 29178

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 tgaacataaa aattagtaat ctggagaggg atttacaata ttggaccatt ttaacctaga 120
 cgagccaaac 130

<210> 29179
 <211> 150
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-A5

<400> 29179

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ggggcattct acgagtgggtc aaggaccggt tgtacattgt atacgagaaa gcattagtca 120
taattagctc actgcactaa ctcatagctt 150

<210> 29180

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-A7

<400> 29180

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ggcgtcggcg tccaaggagg aggtgatcgg gaagctcaac atccgcgtgg tgcggggcaa 120
caacctggcc atcgccgacc cgctcaccca caccagcgac ccctacgtcg tctccagta 180
cggcgctcag aaggtgaaga ctagtgtcca gaagaagaac cccaatccag tgtggaacga 240
agtactgcag ctctcagtaa ccaatcctac taagccagtg caccttgagg tttttgatga 300
agacaagttc acagcagact actgcatggg tgttgc 336

<210> 29181

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-A9

<400> 29181

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gggacgttcg acgtgtcgtc gaggaccggc ggtccattcg gcacgatgaa gcatcagtcg 120
gaattggctc acggcgctaa cgcgggggtg gacatcgcgg tgcggctgct cgagcccatc 180
aaggaggagt tcccaatcct ctcttaagcc gatttctacc agctcgcggg agttgtggcc 240
gtggagggtca ccggtgggccc tgagattccc ttccaccccg gtagggagga caagcctcaa 300
ccccacctg agggccgact tctgacgcc actaagggtt ctgaccacct gaggcaagtt 360

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401

<210> 29182
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-B10

<400> 29182

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aactccttc tctcaggagt cctttcatgc ataggaactg cagttcttgc tgtttgcttc 180
cgcattcaag tgaacaaaga caacaaaga ttcaaggacc ttccccaga aagggccttt 240
gctgatttcg tcctatgcaa tctgggtgct cacctggtga tcatgaattt cctcggataa 300
gcaactgctg caccatgttg gttaaagggt ttgtagcccc aagttgtggt cgctgattgt 360
cgctttaa tgtttggaac tgtcgtgac gtgatgtcga atatccatat gatctgttga 420
agtaagc 427

<210> 29183
<211> 161
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-H5

<400> 29183

ctttacattg aaatgctgct gtttgtacat gttttttctg agttctacac ctgcttgtct 60
tgcttaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa taaaaaatta aaaaaaata a 161

<210> 29184
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-B11

<400> 29184

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 ctccatcaga atatcttatt aaaaggggtca tcatgcttga aaatgacttg aaatgctact 180
 accaaactga gggattaaac cagaagaatg agaattcatc agttatccaa tatattcagg 240
 tgcacatga tgacgccatt ttgaatatca aacttgagct gttctctcta atagcaaata 300
 agccagcctt caaccagcta cgaactgttg aacaacttgg gtatataaca agtctttctc 360
 tgagatccga ctatggagtc ctggcactcc aggttggtat ccagtccaca gtaaaggatc 420
 cttca 425

<210> 29185
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-008-Q1-K1-B12
 <400> 29185

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 aaaaggtggc cctgggataa cccaggccga tctgttggtg ataaacaaga cagacctagc 180
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 agggcccttt gtgtttgcac aggtgaaaca tggagtgggc gtggagggga tcgtgaacca 300
 tattctgcag gcgtgggaga tcgcgactgg taataagcgg cgataagatc tcacgacttg 360
 tggccatatg ttggatgcag atttgaatca gtcggcactt ccacatgcat gtgtcatctg 420
 ttcgttct 428

<210> 29186
 <211> 144
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-008-Q1-K1-B2
 <400> 29186

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ggagctgcct gccaacgtcg ctgaccttct gtgatcattt tgaagaaaaa cagaactaaa 120
 agaaaggtgg tgggggtgat ctgg 144

<210> 29187
 <211> 342
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-B3

<400> 29187

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 ctcgtcaacc tcgacctgag tgactgcaca gacaggatca tcgccgagta catctgggtt 120
 ggaggatccg gcatagacct caggagcaaa gcaaggacgg tgaaaggccc catcacgat 180
 ccgagccagc tgccaaaatg gaactacgac ggctccagca ccgggcaggc tcccggagag 240
 gacagcgaag tcatcctcta ccctcaagcc attttcaagg acccgttcag gaagggtaac 300
 aacatccttg tgatgtgtga ctgctacacg ccacaaggcg ag 342

<210> 29188
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-B4

<400> 29188

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 cgcacacata tagaagacat aatggaaatc cctactctgt tctccaacca tagtagtgga 120
 agcattcggc ctgatacaaa gagtgggttc attgccccaa ctgaagggtt ttctaattga 180
 aatagccttg gaactagccc ttccaatgtg tctcacggaa caaagtggca caaatctgac 240
 aaaaaaatgg aagcatctaa ggttacaaag gctgacctt gaggcaaagc tttccaggaa 300
 atcgctggac atgtcaagtg ttgcttcaga tttgaagaca ttatggtctg ttcccttaaa 360
 accaccctta gtatccagag cagattcatc attcctcagg ggc 403

<210> 29189
 <211> 329
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-F4

<400> 29189

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ggggcgcgcg acccggacag aacgcgcccc cccagcgccg cggccaagga taaccagatc 120

accacgcaca acaagcagca gagggcaagc acggctcgcg cagaccacgg agaggagagc 180

gccctaccga cgcacaggga cagcgagccg gctaacgccg acgaaggaag acagagcaca 240

ggtaaaacaa ccgagaagga gagcgaggcc gggaaggaca cccgaccgag gggaccaggc 300

aaaaaaacca caacacacgc cagagcaag 329

<210> 29190

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-F5

<400> 29190

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aggagcaggc gcaagaccaa gaactgcacc gcttcctatt aggagtggcc tgatatatag 120

ggaaccttta ccagtaggag gcacccatct tttatttgcc aaaacagttt gttaacagc 180

atcaacgaat tgctcaacag ttggagcagg catacacatc ctctctgcac cgcttagcat 240

ccttatagca ttctcctctg gacgaaatag aaggatggac ccatcagttt tcctatatgc 300

ttttaggcct tcaaacaatc cctgcccata atttaagact ccagcttaag gactcagtgc 360

tatatgacca aatggtatga ctttaccttt ggaaaagatt ccatcagttc cacaattttgc 420

<210> 29191

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-F6

<400> 29191

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ggtgcaagcg catgaccaag aactgcactg cttactatta tgagtggcct gatataataag 120
gaacctttac cagtttgagg cacccaactt ttatttgcca aaacagtttg tttaacagca 180
tcaactaatt gctcaacagt tgtagcaggc atacacatct atctctgcac cgtttttagta 240
tacttatagc attcttttta tgacttaata taaggatgga cccatcattt tttctatatg 300
cttttaggcc tt 312

<210> 29192
<211> 194
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-F8

<400> 29192

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aagggttgcc attttaaagg atccaatgct acttacacat gcatgcttct tcatagctct 120
attatagtgt taccaaaaatt taatttactg gcctttgttt aacaacttct tgactggtaa 180
aaccttgtct ttac 194

<210> 29193
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-G1

<400> 29193

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tggcggatgg catctggtaa cttcagtcca gatgaccagc ataattggat agcaagtggc 120
agatcattac cttgctcaga agggccattt gtgcatgatg gatattcaag atcaaacatt 180
gacagatctt caatgaatcc tatgaatcat caacatactg ttctgaatca tttgccatct 240
ggagcaccac taccaggcca tatttctcag atgctaccag ccaggtctga tatgcacact 300
cttaattgct ggaggccctc ttgatagagt tgtaaactga acttcttggt tgtgaatttg 360
acttgtaaag ctcatgtcat tggatgcttt ttgaatt 397

<210> 29194

<211> 54
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-007-Q1-K1-G10

 <400> 29194

 aaaaatcaaa aacaaacttt taaaataaat ttttaaaatt caagacaaaa taac 54

<210> 29195
 <211> 87
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-007-Q1-K1-G11

 <400> 29195

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 agggaaaaat taaaaattaa aaagggc 87

<210> 29196
 <211> 223
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-007-Q1-K1-G12

 <400> 29196

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 gtagggccgt ggcattctcg tccctcacta ctataacgga tacacttggt cagctggcgg 120
 ccacggacct gcccgacaa atgctggatg gttcaacgac attatagaca ccgtgtccgc 180
 tgccgggccg actgtagcac taattgttgg ttatgtcctg gac 223

<210> 29197
 <211> 253
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-007-Q1-K1-G2

 <400> 29197

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tggcagcgcc cgagcaatcg ccacgcccac gcccgaatgg aagacagcgc caccaatggc 120
 catgggggttg tgacggctgt cccggcctcg tggaacttcg agccaaacga gaccctcctg 180
 ggtcttttcgg cgctctcggg tcgtggcggtg ctgaccagag tcatggccgg gatgttgccc 240
 gacggtgggc tgt 253

<210> 29198
 <211> 235
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-G3

<400> 29198

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 cctaggggaat gtattgggat gctggagaga agcattgtat actttgggtc atctatacac 120
 tcgatcacia aaggtcaaac aaggcaagat atacaggaat gcttgaagga aggatatatc 180
 tgtgtacggt cgttccaacg gaagaccaga ataccactac gcctatgttg cacac 235

<210> 29199
 <211> 374
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-G5

<400> 29199

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 aagctacaag ggaagggctt caaataacca gagaggagga aagcgtttca acgcgaagcg 120
 agatagaaac ccagactcgg agaagaattc taacaaggct cggaagggtg aagctatcgc 180
 atgaggttaa tttaggtacc ttagctcgac taaagaagta acatgttatg ccagcatgat 240
 cgacttcagt actctccaag tgtctagaat cgacttgtct tttagctatc gttttcattt 300
 tggtcgtttt gccactttat tcgatgttag tcccttagct ataatecttt ttgaatgtct 360
 ttactgagat gcta 374

<210> 29200
 <211> 423
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-G6

<400> 29200

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aggatacaga gggattcact gtcgtttcaa aacgccgaag gcgtccccag ccgttcatga 120

accccataaa tggcctatat tctcagccgt ctatttgcac ctctgtcagt taaggtcatt 180

gcgttatcga agacctgcaa tattttggga gatggacctt tgcctttgcc tttgcttaga 240

ggattggtat ttggtagcag agattttctc tatccaagtg agttgtgagc agcgagcatt 300

tagtcaaact gtacaaaagt tttccgggat accctttttg taataaaaga aactgatgta 360

ttccgcagta gctgtagcgc tggatataat gttcccttgt atgttatata tgacagaatc 420

ata 423

<210> 29201

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-G7

<400> 29201

gcagcagctc gtgcatatat ctagctaage caattgcgca ccaccgcgcg cgccacccca 60

agatccccgt gccttttcag agcatctctc cgtcgccgtg acaatgaagc agcagcgagg 120

cgaccttgcg acctccgttc ctctgcgcgc cggctgagtt gctgatttgg gataatcatg 180

ttctctctga gtgaatgaac atgtctggga atgatgataa gccacatgct gctgcaaaca 240

gaataaaggc agccacgtta tcagtgacta agggattgag cagggctcaa gctgaatggg 300

ctgcgactgc tgctaccgcg aatgtgaatg cctatgggca gaatgaagag ggacgaagcc 360

gtttgcaaga gaggaagaaa gccaaagagtc agatgtatct gatga 405

<210> 29202

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-G8

<400> 29202

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ggcccactgg acagggacag agtgtggcgt tgctcttttc tgtttccgta cgtacgtact 120

tggatcgcg atgcccgtgt atgcgtgttc cgttgtgggtg ttgctgtact cgatctgctg 180

cctgtgtgta tctaccgagc tcttcggaca gatacgctg cgtatgaata attgatgtaa 240

taacgacgtg tgcattccgt atatatatgc atatctaaaa taaaagata tcatatctta 300

tatt 304

<210> 29203

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-G9

<400> 29203

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cagaacagca ctcggagctc gcctgcccga cggcccacca tgatcatccc caagaagaac 120

cgcaatgaga tctgcaagta cctcttcaag gagggcgtgc tgtatgccaa gaaggactac 180

aacctggcga agcaccacaa gattgatgtg cccaaccttc aggtgatcaa gctcatgcag 240

agcttcaagt ccaaggagta tgtcagagag accttctcct ggcagtacta ctactgggac 300

cttaccaacg atggcattga gcccctactc aactacc 337

<210> 29204

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-F2

<400> 29204

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atgcttcgag tcttcggtag gcttcgaatc cttatggggg aataacttcc aagtttcaaa 120

atttaagtga agagacttat tttttccaga agaatagatt catagtttaa gaacggaata 180

cccatatatg aaaataagag cttccgtgcg taaaatgcgt acacaatgtc gactgattcg 240

caggcgtggg cgaattagag tcattcggtc caatccgaag cataaacaaa gactggggta 300
atctttcgaa aaagaagctt ttctgtctaa tagcttttct t 341

<210> 29205
<211> 184
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-H10

<400> 29205

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gaatgtgggc gaatggatat aacaccgtcg cttccacaac atgcaccaga agccaatgct 120
aacgaggtca cctagtaact gcaccagttg cgttgattgt tttgtttcag gcttatttac 180
tgac 184

<210> 29206
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-H11

<400> 29206

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gagctcgctt gcccgactgc ccaccatgat catccccaag aagaaccgca atgagatctg 120
caagtacctc ttcaaggagg gcggtgctgta tgccaagaag gactacaacc tggcgaagca 180
cccacagatt gatgtgcca accttcaggt gatcaagctc atgcagagct tcaagtccaa 240
ggagtatgtc agagagacct tctcctggca gtactactac tggtagctca ccaacgatgg 300
cattgagcac ctacgcaact acctgaacct tccgtctgag attgtgcctg ccacgtctaa 360
gaagtctgcc aggccactgg gccgtccatt tggctctggc ctttctggtg aaccgccaag 420
gggccctggt cgttttgaag acaga 445

<210> 29207
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-H2

<400> 29207

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tgctcaaggg aaaggagccg tgcagcttgg gaagctattg atgagtattt gatgcccttc 120
gtggaaaaag aaaaatatga actcccaagc aaatgtagac ttcgtcctga taatgacatg 180
tttcggggagc aagagcaaca taagattcat tttgatatta atgagtggca ctgtggcttt 240
tgcaagaaag ctttccgagc agagaagttc attgatcagc attttgaaaa tcgccacaag 300
aatcttgtgg ataatagtga aggaagatgc atggcagatc tatgcggcgc actacattgt 360
gatctgatga tgcagttcat ataaccaaaa tgtaaatagca atgc 404

<210> 29208

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-H3

<400> 29208

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cgcgagttag cgatggccgg agaggacgcc gccgccgcga ggaggccccc gaaggaggag 120
gaggaggagg aagatgacga cgatttggac aacgttccgc tggcactttc cagggccaag 180
aaaccgggta atgcgagcgc ctccaaggtc aagaaagaag aagaggacga ttacgacgac 240
ttggacaacg ttccgttcgc actttccagg gctaagaagg gaaacgagaa gcataaaggc 300
aacaatagca atatgaaggc tttttcgaaa gtcaagaaag aagtcagttc tgatgatgat 360
tttgtcatgc c 371

<210> 29209

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-H4

<400> 29209

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cgtgccctgg ccttccctaa tcatgtcagc gaatccaatc gaggcgatgg accagcaggg 120
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 gctgcggtcg acgggtggacg cgcaccaccg ttacgccgtg ggggagggtc aatgctcctc 240
 gctgctggcg cagcgcattc acgcgcgcgc ggaggccgctc tgg 283

<210> 29210
 <211> 487
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-C4

<400> 29210

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 acatttttgt agcacatact cttaatgatac gggccaaaaa gtctgttttc ttgaatgggtt 120
 ccttcctatt tagggttgat atgtagtatac actggtgctg ttgcactttt gtcacttggtt 180
 tcatttagtt tatggaattg tgccgttttc taatcggtaa tggtagattt tcatttcctt 240
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 tttagttttt cttttttcctt ctttggtttt tatttttggtt tttgttttat gttttttttt 360
 tttttatcctt attattttttt ttgttttttt atttttttat tattttttat ttatccttatt 420
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 aattttt 487

<210> 29211
 <211> 373
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-C5

<400> 29211

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 atcaacatgg atggaaagcc tcaccttggtg aaattccatt ggaagcctac ttgtgggtgtg 120
 aaatgcttgc tcgacaatga agctgtgact gttggaggca cctgccacag ccatgctact 180
 aaggatctat atgattccat cgcagctggg aattaccctg aatggaagct ctacattcag 240

actattgatc ttgaccatga ggataagttt gactttgacc tgctcgatgt caccaagacc 300
 tggcctgagg atatcatccc gctgcatccc gttggactga tggttctgaa caagaacgtt 360
 gacaacttct ttg 373

<210> 29212
 <211> 141
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-C7

<400> 29212

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 atgaacaagg atggtaagcc ttaccttggtg aaattccatt ggaagcctta cttgtggttt 120
 gaaatgcttg ctcgtcattg a 141

<210> 29213
 <211> 241
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-C8

<400> 29213

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 atgatcactg acggtgagcg tctgtgcttt aatgcctata atatgtatac tcgtgacgat 120
 acatgctggc tcgtgactga acctaccact gttgatgtca cttgtcatta tggttcgttt 180
 gttgcatcat atgtttcttt tatacgatgt gaattactta ttattttgtt actttactta 240
 t 241

<210> 29214
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-D11

<400> 29214

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tcggaacacc tgcttgtcgt ttctactccc agcatgctta tgagccgtgg tcgttccttc 120
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 tttcttcttt ttttttatta tttttttatt ttttttttcc ttttttattt ttttttattc 240
 tttttattat aatttttttt tttttttttt tttttttttt tatctctatt ttttttatta 300
 ttttcttctt tatatattct tctttactgt tttttttttt ctattctttt ttttttattt 360
 ataatttt 368

<210> 29215
 <211> 119
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-D2

<400> 29215

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 acatgtttga atttatctgg tcaactgtat ggtaaaatag cagcgttgtc aattgtcat 119

<210> 29216
 <211> 117
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-D3

<400> 29216

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 gcctctgcaa gggcatgaag ggtctgggca agggcagtac caatctctac cataagg 117

<210> 29217
 <211> 387
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-D4

<400> 29217

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agagagcggc gaattttacaa ctccactagt ggtgctggga catatatgtt caggatagat 180
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 agtgatcaac gtcttttcat gtttttg 387

<210> 29218
 <211> 52
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-D6

<400> 29218

cccacgcgtc cgaggacgct tgggcttctg ttttatgtaa agactgaaac tt 52

<210> 29219
 <211> 346
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-D7

<400> 29219

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 tgccgcccta tactcttcca ctctgatggc ccgaatgcag gagatcaaga accattccct 120
 gtgggatcaa atgtccgttc tatgtctgta tgggccatga ttttgagctt gtaattttac 180
 tattattact ttgtgttttt tcattttttt tgtttttatt tcttttttgt tttaaagtta 240
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 ttcttatttt ttttattttt ttactatttg caattcttaa tttatt 346

<210> 29220
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-D8

<400> 29220

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tctgaggatg aggagcacat gaagaagggtg gaggccaaga actctctgga gaactacttt 180
tacaacatgc gcattatgat taatgactag atgattgcgt tttatcttgt tgtctttgtc 240
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tctattttta tttattttat attcttttta tttttctttt tttgtttatt tttttttatt 360
tttatatatt tttatttttt ttttttttat gtttttttta tttctttttt aattttt 417

<210> 29221
<211> 62
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-D9

<400> 29221

cggacgcgtg ggcacaacca tggggcacca ggcgcacac ggcacggact acaccgagga 60
gc 62

<210> 29222
<211> 72
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-E11

<400> 29222

cccacgccta ccaattggac taacactaga atgaaactta tatcgtggca tgtatctttc 60
gagaactgct tt 72

<210> 29223
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-E3

<400> 29223

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ggctggagga ggcgtgcccc ggcaccgtct cctgcgccga cgtcctggcg ctcatggcgc 120
 gcgacgccgt cgtgctggcc aacggccccct cctggccccgt cgcgctgggc cgccgcgact 180
 gccgcgtctc cctcgtcaac tagaccaacc agctgccctc gtccaccgtc aacttcaccc 240
 gccttgtcag catgttcgcc gtctagggcc tctcgtcag ggacctgtc gtgc 294

<210> 29224
 <211> 271
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-E4

<400> 29224

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 tgcctcagcc gctgagctgg tcacggcgct gtctctcccc tccactaagc tgccgttctt 180
 ccgccgcctg ctgcggctcc tcgccgcgtc gggcgtgttc accgtcgaca agcagagctc 240
 ggaggaggag cggtagcgca tcagccccgt g 271

<210> 29225
 <211> 456
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-C2

<400> 29225

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 gtggaacctg tagatcatat caaatggggc gctgccacca cccgaactcc ttatctgttg 180
 ttgagaaggc ctgtctgaac accaacagct gtacagtctc cctgacagac gagagctttg 240
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 gacgtacgga gtactaagta tctcgggtgtg catctaggtt ccaagtatgc ccgtaaaaat 360
 tctaaaattg tagtgcttct tgcacggcaa tgctattgta acctggattt acccgctaata 420
 atgtttccta aaaaaaataa attattttatt tttttt 456

<210> 29226
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-E5

<400> 29226

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gtgagatcgc gcaggacttc aagaccgatc tccgcttcca gtctccgcc gtcgccgcgc 120
tgcaggaggc cgtcagggcc tacctcgtgg ggctctttga ggacactaac ctctgcgcc 180
tccacgccaa ggcgctcacc atcatgccca aggtcatcca gctcgcgcgc cgcacatgg 240
gcgagagggc ctgagcgagt cgagctctc ttaccgatg cggcgtcttt gttgctattg 300
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cctttttct tgttctttg 380

<210> 29227
<211> 126
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-E7

<400> 29227

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tcttgaacta gatacagtat caatacaatc tagctttcaa ctttaacacc atggcatgct 120
tgatac 126

<210> 29228
<211> 290
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-E8

<400> 29228

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aagagacttg tgatatagaa ttgaatacaa gaaatgtcca catgcatgtt tatgcagata 120

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cagggtacaac catccattct atcagataaaa acataaacag taaacaaata caccttacct 180
cctctgttag aatcagatttt gcatctgaac ctatagatct atcattgggct aatgggggatg 240
ttaaaacaga agaaactcat ttttttcagc tttctttagg catgatcatt 290
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tcatacgtgt tcttgccggt ggcttgttga tgctgatgac tgttactcac t 111

<210> 29232
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-F11

<400> 29232

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tactgggtg gagttccaga acaagttcta tgaaggatg ggttacaagt tcgccccatt 180
ctactttgcg ctgattcgtg aggaagaaga ttgagatcgt cccatgtagc cgatgtacaa 240
tctttgatgg cctttgttcc cggaacaaat cattttttca tctgttgtct cggatggatc 300
ataaacctta gtccccttg tttagacatg ggacgaacag caccattttt ccttgtttag 360
ctatgcatag gatttttggg tcggttggt 389

<210> 29233
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-A11

<400> 29233

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agggccggtt cgccggcagg aaggctgtga tcgtgcgcgt gttcgaggag ggcacccgcg 120
accgccccta cggccactgc ctgcgcgcg gcctggccaa gtaccccaag aagtggttcc 180
gcagggactc ggccaagaag acggcgaaga agtcgcgcgt caagtgttc atcaagctcg 240
tcaacttcac ccacctcatg cccactcgtc tcacccttta agtcgacttc aaagacgttg 300
ccaacggccg gcccgactcg c 321

<210> 29234
<211> 195
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-A12

<400> 29234

gatggacatc atagatcttg aggatgagac tatagatgca gagatattga actcgatggc 60
tgttacaaat gaccatttca agactgctct tggaacaagc aacccatctg ctctccgtga 120
aactgttggt gaagtcccaa atgtctcttg ggaggatatt ggcggtctgc agattgtcaa 180
gagggagctg catga 195

<210> 29235

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-A2

<400> 29235

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agcgtctcag ctactgcgaa ggagggataa ggggatggcc gggatcggac cgatcaggca 120
ggactgggag ccggtcgttg tgcggaagaa ggcacccacc gccgccgcca agaaggatga 180
gaaggccgtc aacgccgcgc gccgcgccgg tgcggagatc gataccatga agaagtacaa 240
cgctggtacg aacaaggcgg catccagcgg tacatccctc aacaccaaac gcctcgacga 300
cgacaccgag aacctcgccc atgagcgagt tccaagtgat ctgaaaaaga atctcatgca 360
agcaaggctc gataagaagc tgacacaggc acaacttgct cagatgataa atgagaagcc 420
acaagtgatt 430

<210> 29236

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-A3

<400> 29236

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cttttaatat tatatattta catggctctg tgttctgtct tttaatgacc tttttttttt 120
tctctgtgct gtatattttt tttttttctt tttttatttt ttttcattat tttttttttt 180

tttttctttt cttttttgat tttattagtt tttttttttt ttttttctta ttatttcttt 240
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 tttgattatt tttattgttt ttttgtctta tttatttttt atttttttta ttttcttttt 360
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<210> 29237
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-A4

<400> 29237

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 gaagacatgg gcggcgctgg cggcattggac gaggacgccc ccgctggcag cggcgggccct 180
 ggccccaaga tcgaggaggt ggactaagcg gtttggtgtc agtcttgagc gtgctgcagt 240
 tgctggctgg ccagtcgct gccgcgagtt atcgctcgctc gtcgggtgcgg tgtgtccgct 300
 taaactttat ttgtggtggg ctggtacttt tgtggtggtt attttttttg gacctcgtga 360
 tagtcggtcg ggtccatggt atcgcggtta ctggcaaacc ttaagtata c 411

<210> 29238
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-A5

<400> 29238

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 aactcctgct gatttagcat cagaaaatgg tcacaaaggc attgctggtt ttcttgca 120
 gtctgctttg acaagtcacc tctcagctct tacattaaaa gagtcgcca gtggcaatgt 180
 ggaagaaata tgtggattaa cagcagctga aggttttgca gcatcaagtt cttcccagct 240
 tgcttggtgtt aattctcagg aagagtcctt aaaagattca cttggtgcag ttcgtaaatt 300
 aactcaagca gcagccagaa tatttcaagc ttttaggtgg gaatcattcc acagaaagaa 360

tgttattgaa tatggagatg atgattgtgg attgtctgat gaacgcacac 410

<210> 29239
<211> 470
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-A6

<400> 29239

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tatgagtcca tcacccaagg aaatcctatg tggaatgagc tgccagtctc aacaagcact 180
ctctatccct gggatccatc atctacatac atccatgagc ctccttactt caaggatatg 240
acaatgactc ctccctggccc gcgaccggtg aaggatgcat attgccttct gaactttggt 300
gacagtatca caactgatca catctcgctt gccggaaaca ttcaccaga cagcgcagct 360
gcaacatatc tgaaggagcg tgggtgttgaa aggaaggact tcaactcata tggtagccga 420
agaggaaatg atgagatcat tgctagggga acctttgcaa catttcgctt 470

<210> 29240
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-A7

<400> 29240

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gacctcagcag atgtgggact ccaagaacat gatgtgtgct gctgaccctc gccacggtcg 120
ctacctcacg gcatctgcta tgttccgtgg gaagatgagc accaaggaag tggatgagca 180
aatgctgaac gtgcagaaca agaactcttc ctactttgtg gagtggatcc ctaacaatgt 240
gaagtcgagt gtgtgcgaca tcccacccat cggcctgaag atgtcctcca cattcatcgg 300
caactcgacc tccatccagg agatgttccg ccgcgtcagc gagcagttca ctgccatgtt 360
caggaggaag gccttcttgc attggtacac g 391

<210> 29241

<211> 256
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-007-Q1-K1-A8

 <400> 29241

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 ctactttaca tcatgtgctc tatcaatttg taagatgata accaattaaa tttatttact 180
 aatgcttacc tgtcgctata attatattaa ttatctaaaa tatttgtatt ctatgaattt 240
 gtattcaatt gttttt 256

<210> 29242
 <211> 352
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-007-Q1-K1-A9

 <400> 29242

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 ggacgagtcg gtgctctgga ccgagagccg cgacgtcggc aacggcttcc gctgcgtccg 120
 catggtcaac aacatctacc tcaacttoga cgccttcac ggcgacaagg cccacggcgg 180
 cgtccatgac ggtaccgaga tcgtgctctg gaagtgggtg gagggcgaca accagcgtg 240
 gaagatcctt ccttggtgaa cgaacgaatg aaactactag ctggtaccct aataataatt 300
 ctgctggctg cggcgatccc ataaataaag atgcccgggt cgattgcatt tt 352

<210> 29243
 <211> 178
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-007-Q1-K1-B11

 <400> 29243

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 tagggcgcta gctcgtgcct cgtgggtgtgg gtgaataaaa agattcatgt cgatctctgc 120

ttactgttat cgtatctgta gtaccttgag tgatatgaac aatatgtatt atttacca 178

<210> 29244
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-B7

<400> 29244

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agctgcttaa gcacaaggag accgccaagg tccgcctcgt catgcgtcag gcgaatacgc 120
ttaagatctg tgctaaccat ctggtggtgg cgacgactaa gatgcaggag cacgcatggt 180
gcgacaagtc gtgcgtgtgg ctgcgtctgg acttcgccga ctgtgagctc aaggaggaga 240
tgtttgctat cacgatttgg atctgtcgag aatagctaga agttcaagga cactgttgaa 300
gagatagctg aagagcatgg taagac 326

<210> 29245
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-B8

<400> 29245

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tctgccgccg ctccgctgct gttgaatctt tccagctact agtggtcagc gctccaagaa 120
taagggtcct gggatccctg tcttcagca tccccaagtt ggagattggt ggcaccgtct 180
ttcaaccac cgtgcgccgt gtcaaccgtg tggggcctga cgatgttatc atggagaagc 240
gcttgctgat gcaggccgtc atgctggcga cgactctgcg aaccgtcaag attttggcgc 300
tggaagatgc agattccatc gacatcgtca gcgactactt gaagtgtttt ccatgcttgg 360
aaaagctata catctcggca tcacaaggat acagaagtgc tggaagcta 409

<210> 29246
<211> 146
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-A10

<400> 29246

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ccggaccagg aggacgcgtc ggtgctgtgg actgagagca aggacgtggg caaggggctt 120
cgctggatcc gcatgggtcaa caacac 146

<210> 29247

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-B9

<400> 29247

cccacgcgtc cgccacgcg tccggcggcc gtagagaggc cgacgcgcac cagcagatcc 60
caaactcacc ggggaggagg gagtgggcga ccggcggcgg cgatgggttt catcatggag 120
ttcgcagaga acctgatcct ccgtttgatg gaggacccgg acaagcgcga ccaggttcgg 180
cgggagcatg cctacaagat gaaggagcgg tgcgagcgca ccaaggcggc gtggagcctt 240
cctctgcgct cctacagctt ctggaccttc gaccgcttca actcgcagct cttctgggac 300
ctgctgatca gtca 314

<210> 29248

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-C1

<400> 29248

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gaccagcag atgtgggact ccaagaacat gatgtgtgct gctgaccctc gccacggtcg 120
ctacctcacg gcatctgcta tgttccgtgg gaagatgagc accaaggaag tggatgagca 180
aatgctgaac gtgcagaaca agaactcttc ctactttgtg gagtggatcc ctaacaatgt 240
gaagtccagt gtgtgcgaca ttccacccat t 271

<210> 29249

<211> 456
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-006-Q1-K1-G12

 <400> 29249

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 ataatggcca tcttgatctt agatgggtca gggtgtcata tgtcctataa atattatcta 180
 acatagaaaa aaaaggaata caaatataat tgtcagccaa aaaatgtttc gatagcctgt 240
 taatggctctg tatttcatac gaatgtaacc tttcaacagc tttgattgat attatgtacc 300
 tctacagatg gcagcagtgg aaattctatg tgtgcaacta gaaccaagtt accgaccggt 360
 gattagcgcc tattgagctc aatatgatat tacagtttat ttgtgctcaa ccaccgatgg 420
 cgtctttatt actgtgcatt gcatattctt gggttag 456

<210> 29250
 <211> 296
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-006-Q1-K1-G2

 <400> 29250

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 ctgagcagat cacagatcct tgaagggttag gctgtacaaa gtggaatgtt tggccatgag 120
 atgatggata cagtcgctaa ctcgctatgc tcagccaagc tgctgatgca gaaggctgaa 180
 gctgaactcg gcgatgggtc tcagcgacac tagaagatag gttgatggtc agttaggact 240
 aactgtactg tacggtatca ctgcaatgca agggactcat tggatgggag catgac 296

<210> 29251
 <211> 293
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-006-Q1-K1-G4

 <400> 29251

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tcaggcataa atataaatcc gttctcttgc catggtatct agcacgctca agcatcattt 120
gaataagtct tgcaattca acacaggttc tacgaaagtt gctttggcta aggaacgact 180
gcaatgtcga gaaacgacac taattttctt cagcgcttcc cactaccgtc gtccaacttg 240
gggcccttgg aacccttctg gaccgtaccc tttgtctgcg tcttctggga ctt 293

<210> 29252
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-G5

<400> 29252

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cgtcgaacat agccgcacta aacacatagc cattcggtat cattttctta gggatcacca 120
acaaaagga gatatcgaga tttcttacat taatactaaa gatcaattgg ccgatatctt 180
taccaagcct cttgatgaac aatcttttaa caaacttagg catgagctaa atattcttga 240
ttctaggaat ttcttttgtt aacttgcaact catagctcat ttatataact ttgatcatat 300
gctatgacta atgtgttttc aagtctatct caaaccaagt cataggtata ttgaaagga 360
attggagtct tcggcgaaga caaaggcttc cactacgt 398

<210> 29253
<211> 77
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-G7

<400> 29253

cccacgcgtc cgaaaaaaaa aaaaaataa taaaaaaaaa aaaaaagca aaaaaaaaaa 60
agaataaata aaaataa 77

<210> 29254
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-G8

<400> 29254

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tctccccagg gtccggcgat gtcggcgccc tccgacgccg cgggtggcagc ctgatcgccc 120
gcatccacta ccaccgccgc cgcctccagc ggtgggcttg accttcaagc tccaccgct 180
cgtcatcgty aacgtcttcg accaccacac ccgcgtcaag gcccaggccg cctgctccgg 240
ggacagctct tccccctcct cgtccgcccc gggggccggg cagccgccga ggggtgttcgg 300
gtgcgtgatc 310

<210> 29255

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-G9

<400> 29255

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ggagtcattg tgaaccccaa gggcgagatg aaaggatctg ctatcactgg acctattggc 120
aaggagtgtg ctgacctttg gcccaggatt gctagtgcag caaatgctat tgtctgatac 180
tactggttga gaatagttta ttgtgatcca ttttaacctt ttctgcactt caacatttgt 240
gggaatttac ttgattaatg gactaaagga aaagacgctt atgcgcacaa tt 292

<210> 29256

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-H1

<400> 29256

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gacttgcaaa gcttttagag gatgaagaat cacatattac tacaatagtt gcaagaacat 120
tttgttacct tgcaccatag tatatgcaat ttggcagagc cacctagtga gactgatgtc 180
tacagttttg gggttatggg actcgaaata ctacgtggaa agcggcctac tgatgcatcc 240

ttcattgaga agggactaaa cattgttgga tggttaaatt ttctggctag tgagaaccgg 300
gagagggaaa tttgtctcct gaactgggaa agagtgcaga ctgagacctt atatgctc 358

<210> 29257
<211> 122
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-H10

<400> 29257

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ctggtgtgtg gtacccttag gcaagagtct aacaatcaac tctgacatat gatggagtga 120
ct 122

<210> 29258
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-H11

<400> 29258

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tcttccaatg gagctgacaa ttcagggtccc accaaggata ctgagtagct gaactgcagc 180
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acttgcacga tgcgggtcac cgaagactta tgctgctgca gaagttttgt ctctggcagg 360
tagctatatg caagaggggtg gtaccgggtc 390

<210> 29259
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-H12

<400> 29259

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catcgacgac ctggttgcga ccggagggac actctgtgct gcgatcaggc ttctagaacg 120
tgctggagcc gatgtggtcg agtgcgcgctg tgtcatcggg ctcccgaat tcaaggattt 180
gtacaagttg aatggaaaac ctgtatacgt gctggttgag tctcgtgaat aatcggagaa 240
atgacaactt atgctcaggt gtcagagtga tcagggatat tggctgttta ctccttgcta 300
ctgcgattga acagtggagg gacgacatgg acaaggacaa gtatattcgg tgcatacta 360
agtcttggtg aggggagaga ttgtagtgtt ttaggctgag tagtgaagaa cctgtagttc 420
tgcacggaac atgat 435

<210> 29260
<211> 313
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-H2

<400> 29260

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atgcatgtca tctggaggaa tacagccaaa acggaatgta taaaacaatt aggactttgc 120
aagaagtcta tattgatcca tcttcagttc tctttagggg taattctaag tgggttgtct 180
accagtctct cgtctcaact gacaagcatt atatgctgaa cgttattgcc attgagccat 240
catggcttac ggaagctgca ccacattttt atcagttccg aacattcaat cctgcttccc 300
actaacatta ctg 313

<210> 29261
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-H4

<400> 29261

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ccaccctgag aaaggagatg ctctgtacgc tatggagctg gctctggccc tggaaaagct 120
ggccaatgaa aagctgcaca acctgcatgg tgtggcaaca aggtgcaatg atcctcagct 180

<210> 29264
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-H7

<400> 29264

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 atactacagc atatgctcct tgtaaagcag gttgagacta tcattctgca gttcttatta 180
 tataggatga ttacgaaggt aacatgtttg ggacagtaac atttgcttga aatgtatata 240
 gtctacaaca agaataatgc cagcattctt gaaatgtatc gcctaggaga atgctagcac 300
 ttacgggtgt gacgaacgat ctgctgtcgg ttgagatgaa aaggcgttcg ctttctatta 360
 aggatgtaaa tggtaaaaa ggatgtaaaa ggtacagata ttatc 405

<210> 29265
 <211> 370
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-H9

<400> 29265

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 cataacattg ggagctctgt acagatcaaa gaattccatc cttgtgtttg catggacca 120
 gaaaatgcag atttaagaat gatgcgagtg atggaggcct atcaggtaac tttgtgtact 180
 atagttgtgt gtttctacaa gtgcgtatgg atgctatcat aataaccacg atcaaaccatc 240
 atcaaacaac tacaatttac agtgcaagtt tgggtgcgcaa ttggtggtga tattatcttc 300
 tagacatata tagatttatt aatttcccct ttttagtaga cattgcctat ttttttctac 360
 aattgagttt 370

<210> 29266
 <211> 467
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-A1

<400> 29266

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gtgatggtga caatctggaa gggaaagggtg ttgggtgctcc atttgagcag gggaaagggg 120
atgattcatc gccagcggag gtgcattgga gcagcatggt tcatcagact ggtggtggca 180
tcagcatcgt ggactagaga gggttgcgctt atgtgagagc ctagagttca tggaccgatg 240
gtatgttgag gtgggatggt aggtggtatt attttgtttt tttctttttt tttgtttttt 300
ttttatattt ttttatttta tattctactt ttattattat ttatttctat ttacttttat 360
ttacgtaata tatcttctta ctttttttat tttcttttct ttttattatt tttttttttt 420
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<210> 29267

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-006-Q1-K1-G11

<400> 29267

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ctcattgctg caaaggaaga ggaggtcacc gaaggaaga ggcttctctc cgaggaggtg 120
gaagagaacg catgcatcag ccaactgaaca gaacaagcag gcgatttttt tgtgtggatg 180
gcgtctgcca caaaaggatt gaatcgagga gtgtgctctg gttgtgaagt gataactagg 240
ctaccacatg ttcattttca aaagttttcg tgtgtgatcg tgatcagggg tgaaactgtg 300
gtttcagcca acaaacttgc aagttctatt gcttcttccc acttttttcc tttatatata 360
tnttggatcg gttacagaac atggtttatc cagtggatg ctgatgaaag atgctaagtt 420
cgcttaaaat aat 433

<210> 29268

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-E4

<400> 29268

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gtacgtgagc ccggccgaga gcgagggaga ggcattggctg ctccgaagct cgcgacgctg 120

gcgctggccg tgctcctggc ggcgaccgag gtgggtcccc cggccgaggc gcgcgcggcg 180

atgtcgtgct ccaccgtgta cagcacgctg atgccgtgcc tgccgttcgt ccagatgggc 240

ggggccatgc cgcgccagcc gtgctgcggc ggcattccga gcctgctgca gcaggccaac 300

aacacccccg accgccgcac catctgcggc tgcccaaga acgtc 345

<210> 29269

<211> 242

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-E6

<400> 29269

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gggatgggac agaaggacgc atatgttggc gatgaggcac agtctaagag aggtattctt 120

actctcaagt acccgattga gcacgggtatt gtgagcaact ggtatgtcat ggagaaaatt 180

tggcatcata ctttctacaa cgagcttcgt gttgccccat aggagcactc tgtgttgctt 240

ac 242

<210> 29270

<211> 157

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-E7

<400> 29270

catacgctc cgcaccgag tccgccact cgtccgcaac ttcaagcagg ctggcgagag 60

atatcgttcc ttctaccctg caaggcaaga ccggttcatt cagcgatggg tagactcaat 120

gactgaccct cgcattgacc atgaacaccg taccatt 157

<210> 29271

<211> 348

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-006-Q1-K1-E8

 <400> 29271

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 gttgaagtgg ataattgttc tcatccttct aagactgtga agccacttga tggtcctcag 120
 tcagattcta ttacagagaa taatcagcct tctccataag ctacccttaa tatccagaac 180
 aaagtgcaaa gtagttccac cagaagctgc aagaaggttc atcatatgtt gcaccttttt 240
 ccttgctagt agtcattcct tgatacataa atgctnacta ggcccaaacc ttcaattgaa 300
 tactttctcaa agtatgctcc atagagttta tgtactctgg atcccttt 348

<210> 29272
 <211> 285
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-006-Q1-K1-E9

 <400> 29272

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 tcctcaagga agaaaagaag ctgaaccatg gggaagagaa agtcagctgc taagccacct 120
 cctaagaagc ggatggacaa gcttgacact gtcttttctt gccattctg caaccacggg 180
 agtagtggtg agtgccgaat tgacatgaag aatctgattg gcgaagcatc ttgtagaatc 240
 ttgcaggaaa acttcaacac aactgttaaa gcacttactg agcct 285

<210> 29273
 <211> 388
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-006-Q1-K1-F1

 <400> 29273

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 agctgcttga aataattgac gccagtgaat tgccggaatt ccttggtggc acttgtaacct 120

gtcctgaata cggaggctgc cttaaggctg aaaagggacc atggaaggac ccaaacatac 180
 ttaagatagt ccaaagtggg gaggttcatt gtgctcgtca aattgtaact atttccaatg 240
 gtgaagaaaa atttattact tatgccaaac cgaagcacca ttcaatgcga gggagtgcga 300
 catcaactgc tgagtctggc tcataagctg acgatgctat ctcccccaaa gctctcagag 360
 gttacataca acatcctaag ttgacccc 388

<210> 29274
 <211> 427
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-006-Q1-K1-F10

<400> 29274
 gctccagccc atagtgaatc tcccggagtc gcccacaaac cagcgacaac catggccgcc 60
 gccgcctgct attcgccagc gcgcacatc atctctgct cagctaccac cacctcctca 120
 ccgtcgtcag cgcgcacgct gcgcgtcgcc gtagtggggg gtggccccgc gggcgcgctc 180
 gctgccgagg cgctggcctc ggcggggggc cggacgttcc tctcagagcg cagccccgcg 240
 ggcgccaagc cctgcggcgg cgccatccca ctctgtatgc tggacgagtt cgccatcccc 300
 cgggacctcg ttgaccgccg cgtcaccggg atgcgcgtgc tctccccctt caacctcgcc 360
 gtcgacttct cccgcgcgct gccccccggg gcgcacatnc ccagtctccg gcgcgaggtg 420
 ctcgatt 427

<210> 29275
 <211> 450
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-F12

<400> 29275
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 ttcagtagtt cagttgcctg tgatggggaa atatcaagta ctgattggaa tagcatcgaa 120
 ggggctaatc ttgttcttgt atgtagcgca ttgaaacaag tactaaagga aaggtcgtga 180
 tttggtttgc gtacctttta ttcacttccc tatattatct ttaaaagcac ttcgtgattt 240

tcagatgaat agcaatgtct gcatattagt gcgttcattg atgaatttgt ttctaggttt 300
cctctcatac aatataatgg tgtcaaagcc tgtagtgcctt gtcttcctgt tgggtggtact 360
cataatcaca tcccagtttg aatggaagca acagcttgta aacgagttgg aatctacggc 420
tcgcaaccag aaacatgttt caagtagaga 450

<210> 29276
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-F2

<400> 29276

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cacccatgac tacaacgtgt tcagcttcca cccggacaac tcgccgtgcc acggcttcga 120
ggaggtcctc gctgctacc gcaagatcgt gccgcacctc aagctttccg ggccgacgtc 180
gttcgcgccc atcgtggagg cggccgtcga catcgtggac cggagcgggg ggcagtacca 240
cgtgctcgtc gtggtcgcgg acgggcaggt gaccaggagc gtcgacaccg gtgacggcga 300
cctcagcccc caggagaaga gaacggtgga ctccattgtc atggcaagct cctacccgct 360
gtccatcggt ctggttgggg tcggg 385

<210> 29277
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-F3

<400> 29277

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tctggtgaat ctcaagaata aggggataga tgggttcaagg gtggagaagg ttttagaaag 120
tgtgcatatt gcatcataca agaacacagt gcctggggat gttttatcta ttgtgccagg 180
atgcatcatg atgggaaccc cagctcctac gtcgagagga tttgttgaag aagatttcgc 240
taaagttgct gacttcttcg atgcagcagt gaatctggcc ttgaagatta aggctgcaac 300
gaccggtgga acaaagctta aggtctttgt tgccacttgg caatctga 348

<210> 29278
 <211> 406
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-006-Q1-K1-F4

 <400> 29278

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 gcgtcgcgcg acccggccag atctcgccca ccctgcgccg cggccatgga taacttgatc 120
 accctcgtca acaagctgca gagggcttgc acggctctcg gagaccacgg agaggagagc 180
 gccctccga cgctctggga ctgcgtgccg gctatcgccg tcgttggagg acagagctct 240
 ggtaaactcat ctgtgttgga gagcgtgggt gggaaggatt tcctaccgag gggttcaggc 300
 attgtaacct gtcgtccgct ggtgctgcag ctccacagaa ttgatgggtga cagggaatat 360
 gcagagttca tgcattctcc gagaaaaaga ttacagatt ttgctg 406

<210> 29279
 <211> 387
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-006-Q1-K1-F5

 <400> 29279

gcgagggaaa agttggcacc gtatgcaggc ttgtcatctg aagaaagcta ccagagtcgc 60
 gaccttgaaa aggcattctca gcaattttca aagaacctgt acgagttcaa ggttcattca 120
 acaacattga tcccatagca agttgggaat atgtatacag tatcacttct atgctgctct 180
 tgcacgggtt atacataata gacatgaaac tctggcaggc cagaggattg ttatgttttc 240
 gtatggcagt gggttgacat caacaatggt ctctttcaag attaaagaag gccatcacc 300
 tttcagcttg cttaacattg catacatatt ggatgtttcc aagaaattta aggcaagact 360
 tggtgtgcat cccaagaaat ttatcga 387

<210> 29280
 <211> 386
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-F6

<400> 29280

cgagctggca aaggctgttt tggaaaagaa gcaagttcca gatattatag taaacaatgc 60
tggtacaata aacaagaata acaagacatg gaatgttcca gtggaagatt ttgatatggt 120
ggttgataca aatatcaagg ggacagcaaa tgtgcttcgt cattttgtac cacttatgat 180
agcgaggaga catgggatta taattaattht aacctctggt tggggaagat ccgctgctgc 240
agaagtcata ccgaaagcca ccaaagcat tatagttgat cctttctggt gaatcaaat 300
ccttattgca tactaaattg cacgttgcca ttccaggttg ctccatattg tgcttcaaag 360
tgggcgattg aaggcttgac acgctc 386

<210> 29281

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-F7

<400> 29281

cccacgcgtc cgcccacgcg ttcgctcact tctgatgctc agaggctggt gagcatccaa 60
gcgagcattg aagagctgaa gcagaaaatg gaggggcagt caaagggaat atcccctatg 120
aactctgagt acagcagtgt gagcgctcag gtgcatgaga cagagggcca tgtcttgga 180
cagatcaatc tgaacaacaa attgactagg acggctgaga actacccac actgtcagat 240
aatatgagca ccgagcgaga agggatttcc agcaggagga agatcttcga gcagggtgcag 300
aaagggtcgg agaagtggtc aagggttgga ctggagcttc agaagattca gtatgtcttg 360
ctgaagcttg atgaagagca cgagtacaga aggtctaaag tctctgataa gcgcac 416

<210> 29282

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-F8

<400> 29282

ggcacggaca cgacggtgat ctcggtggag tgggcatgg cgagctgct gaggaacccc 60

agagtgcagg agaagctgca ggaggagctg gaccgtgtcg tcggtcgcga ccgggtcctg 120
tcggagacgg acttccccgaa cctgccttac ctgcatgccg tcgtcaagga gtccttgcgc 180
ctgcacccgc cgacgccgct gatgctcccc cacagggcca gcgccagcgt caagatcgcc 240
ggctacgaca tccccaaagg cgccaacgtc gtcgtcaacg tgtgggcggg ggcgcgcgac 300
cccgaggtgt gggacagccc gctcgagttc cggccgagcg gttttctc 347

<210> 29283
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-F9

<400> 29283

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caaggtgggtg tcgtacagcg tgggtggacgg cgagctggcg gacttctaca agaacttcaa 120
gatcacgctg aaggtgactc cggccaaggc ggacggcgag ggcgggcgccg tcgtcagctg 180
ggccatggag ttcgacaagg ccaacgacca ggtgccccgac ccggacgtca tcaaggagac 240
cgccaccaag acgtttcacg acctcgacga ctaccttctc aagaactaga ttgagcgaca 300
actggagatg gtccagtaca gtacag 326

<210> 29284
<211> 160
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-G10

<400> 29284

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accgaagtgt attttatgtc ttgttggtta cctggaattt aattaaaacc atcacttgta 120
tccttttgag aattgggcaa ttgatgtgtc gttttctggt 160

<210> 29285
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-E3

<400> 29285

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ctctcagctt tccgcacgt cgacagcaca gacatcatca aggagacatg ggtgctcacc 120
gaggaggcca agggctacgc cgccaagggc tccccgagg cacagctcgt cgccgcaatt 180
tcaccggagg gtgcctctaa ggacgcactc aaggcaatat tgggagatgc tttcgatggt 240
ggcatgaaag cagccgcgag gaacaagtgg ataggtttcg agaaggggaa taaggactta 300
gtccttatga aggttgagag cgtaaaggat gagctgcaag agcagcttat aagactagag 360
aatggtgaag ttgtttctga taaagtgatc gatg 394

<210> 29286

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-C1

<400> 29286

gtcgaccgtg tcctcggagc acgatgaagg ttgttgctgc ctacctgctt gctgtcctcg 60
ctgggaatgc cagccccctcc gctgaggatt tgactggcat tctggagtca gttggctgtg 120
aagttgacaa tgaaaggatg gaactgctgc tgtcccaact gagctggtag gacatcaccg 180
agctcattgc cgcgggcaga gagaagtttg cttcagtcct atgtggcggc ggcggtgtgg 240
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aagagaaggt ggaagagaag gaagaaagcg atgatgatat gggcttcagc ctcttcgact 360
aggttgcaca gtcacacag tattggttcc ggcagtgaat tcaaagggaa ccagagtcac 420
g 421

<210> 29287

<211> 141

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-C10

<400> 29287

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 tttcgaggaa ttggacacat ggctaatacca tcaaacagtt tggttctgaa ggttctatca 120
 acctctccat cagcttattc a. 141

<210> 29288
 <211> 257
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-006-Q1-K1-C11
 <400> 29288

ggacattggt gcgctttctg gtggtcacac cctgggaaga tgccacaagg acaggtctgg 60
 atttgaggga gcctggacgt ccaacccttt gatctttgac aactcttact tcaaggagct 120
 tctgagcgga gagaaggaag gccttctgca gctaccaagt gacaaagccc tcctctctga 180
 tccatccttc cgcccacttg ttgacaaatc ccaattctga aagcttcagg tgggcctcgg 240
 ctagtcttag atcgca 257

<210> 29289
 <211> 408
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-006-Q1-K1-C3
 <400> 29289

tcgcccacgc gtccggggcg ccatcccggc gctgccacg gtcgccaccg cccaggacct 60
 catcgccaag gccaaactaga tggccgcacg cccgccgttc caccacgtca ctgtccccct 120
 cgctctcgac gtccctcggtt tcggttcatt aggtagatcg agtcttagcg ttcgtctttg 180
 cgctctacg ctgagacggt ttgtttgggt taattaagtt agctttcgtg gagatttcgc 240
 cccggggcat caaataaaat gttggcatgc gtgggtgggat gctatccttt atttttattt 300
 tattgtattt tttagcttgg atcagtttgg gttttgaaca ttgctagtgt cgtgtgattg 360
 ggaagggcta agtgatgcct ttcatgcaga agtttcaatg aatgcctt 408

<210> 29290
 <211> 191

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-C4

<400> 29290

acaaaagatc atacttttgt tgttttcgcta gtgtgctgtg gcccggtcat tatgcatagg 60
 tgttttacat tgtcgtagtgt tttgataaat gatggatggg gactggggtt gttgtgtcaa 120
 ctgtcataac tattgtgcat ttttggacgc tatatgtgta gccttgatat gaatagattt 180
 actgtactta t 191

<210> 29291
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-C5

<400> 29291

cccacgcgtc cgcagattca gatcagatcg tagcagccaa ggattccgcg ctccgggggt 60
 gccatgaagc tgaagctcct ctctccctgc cttctcctcc tcgccttctt tgccaccgcg 120
 gcgtacgcgg cgctcggcgtc ggcgtcgcgc gcggcgggccg acgacagggg cgcgggcgcc 180
 ctgtcgcagt cggagttgga gtcggacccg gagaaccagt gcgtgtacac ggtgtacgtg 240
 cggacgggggt ccatctggaa gggcgggcacg gactcgacca tcggcgtgac gctgctgggc 300
 gccgacggca cgggcatccg gatccgggac ctggcggggt ggggcggcct catgggcgcc 360
 ggtcacgact actacgagcg cggcaacctg gacatctttc gcgggcgggg cccttgca 418

<210> 29292
 <211> 171
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-C7

<400> 29292

atttggatat ttagactaac ttcttggatt ataggcgatt ggatgttcac tttgtacgat 60
 gtattagcgt tgacattact ggaagcccta attgtgagaa gtagaaacat atcatgtgtg 120
 ttgctacggg cattaaaaaa aaaaaaaaaa taaaaaataa ataattataa t 171

<210> 29293
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-C8

<400> 29293

cccacgcgtc cgatctgtat gagtcgggaa aagtgtgcct cagcctcctg aagacatgga 60
 caggcactgg taacgaagtg tggaatgctg agagctcaac tgttcttcag ctgctgttat 120
 cgcttcaggc ccttgttctc aacgaaaaac cttactttta ctaggcggga tacgacaaat 180
 ttgtgggcaa ggctgatgga gagaagaact ccatcacgta caatgagaat gccttccttc 240
 tgtcatgcaa atccatgatg tatgttttac gcaagccttc aaagcatttt gagacgttgg 300
 tcaaggagca tttcacctgc ctggccccgc acattgtgga tgcctgcgag gcttatcatg 360
 ggggcgatct cgttcgacat gcgcacgaca 390

<210> 29294
 <211> 307
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-006-Q1-K1-C9

<400> 29294

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 ctgtgaaagg aggcagctta tcaattggag gttctcttca gcttcttggt ttctgcacct 120
 ttgaggcatg tgttggcata ttctggccgt caatcatgaa gatgagatct cagtacattc 180
 ctgaggaagc gagaagcaca atcatgaact tcttccgcat accactcaac ttatttgttt 240
 gtgtggtgct ttacaacgtg aatgcattcc ctatcactgt catgnttggg atgtgttcta 300
 tcttcct 307

<210> 29295
 <211> 252
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-D1

<400> 29295

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gtcgggcgct tgaagccgag ggcattgttg gaaatcattt ttatgtaccg ttttaagagt 120
ttggagtgaa ctagagatgg tgaatgtccc tcctctggag gatgccatgg accctatttg 180
tttacaataga actgccctgc tgttaaactt ttgctacttg gcgaccagat tttttcagct 240
atttttttttc tc 252

<210> 29296

<211> 142

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-D12

<400> 29296

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agcaccctat tatcgcatct aatggcgcaa agataatcga caaaaaaaaaa aatatttttt 120
aataatattt aatttatatt tt 142

<210> 29297

<211> 57

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-D2

<400> 29297

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<210> 29298

<211> 82

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-D3

<400> 29298

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cttgtatgta atgttgtcag gc

82

<210> 29299
<211> 105
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-D5

<400> 29299

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gggcctggtg ctatgacaag aaaaggcgct aatactgttg ataga 105

<210> 29300
<211> 212
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-D6

<400> 29300

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tgagatcagc tccggcggca cgcggatatg actacttcaa ggctgtttgc tgtcatgatt 120

agtgc aaagt ttcagaataa cattacaaat aggggtgtttg tagtagatac cactgtgaaa 180

aagagcaatg actaccctgt tggacctata gt 212

<210> 29301
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-D7

<400> 29301

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gcacccgcgg agacgcggag cctccactcc tgatcctgtc acccaccgtc ttcgtcgggtg 120

ctgttgctc ctatatcacc caccgcctct gaagaagaag acgcggattc gagggtaggt 180

aactgctgaa gaagaagatc cggtagcgag aagacgcgga gcagtactta tccgatctgg 240

atgttggtta ggttcacact gatttgaacg gtaatctcac tgataacgag ttctctgggat 300

gaggaagctt gtcaattttt

320

<210> 29302

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-D9

<400> 29302

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cagagctact catacagtaa cgcaagtagc caacaggagt ttcttctctg cagcttctca 120

ccagaaaagc ctacacggca cagcaacatc tcgcgcggtc actggtactg actggcaagc 180

tggccttctc tgacgatgta gttctgcacg gggaagtcct cgcccttgaa atacctattc 240

agcatgtccc tcacaccatc cgcataccgc agctgcgcat caattgtagt ccc 293

<210> 29303

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-B8

<400> 29303

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gtggtgacaa gtggaagtcc ctgtctgatg ccgagaaggc tccctacgtg tctaaggcag 120

agaagctcaa ggctgagtac accaagaaga tcgacgttta caacaacatg cagtctggag 180

acccacggc gtctggtgat tccgacaagt ccaagtccga ggtgaacgac taggacgagg 240

atggtgacta gtgatgtatg acggatgaaa ctctgtccaa gtgtttgcag tcagggaaaa 300

aatctcgtcg ttgtcggcct aaccggggtt tctcgaagga ctttctagat gcatgttatt 360

agtgccgtct tctgagtagt ttccttgcaa gtgtcgtccc gtc 403

<210> 29304

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-E1

<400> 29304

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gcttgagcga tccgagcaaa aaaaatcatc cgcgacgcag cgacgcaggt ttgttctctg 120

atctctctgg ttcttctttt agcagcaggg acgcacaaca caagaaaagg tccggttcaa 180

gaggetcttc tgttgggttt ttttagaatc ctcaagagaa gcgtgttctt gggtaggat 240

ttttttctca cctcataaca cctctcctag gaggaacaga gatccagaga accttttttc 300

tcttctggat ccttgccgcc ttttggcggt cgaaaggggg ttgttttgca atacctctc 360

tctggttttt ttttctttct tggcacaaac ccaactcggt tctctacttt tattgaggaa 420

cagagctggt ttttc 435

<210> 29305

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-E10

<400> 29305

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aaggtcgtctg actgcggaca gctctcctag atctctctga tctggtctgt tcggccgccc 120

tccctccgtc atcgtcgact cccctcggt ccgttccttt ggatctgaat aagatggtgg 180

tgatctgagt ggtggtctta gtttatcatg tatcgctcgc agtttaattt agcggtttag 240

gtgtggatct gtgaacccca tggcgccctc gcttgattcg tgtttcacct gttatgttct 300

gagattcatg ataatgctat gagaactgaa attcccgttt 340

<210> 29306

<211> 468

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-E12

<400> 29306

aaaaaaaaa aaaaaaaaaa aaaaaaaaaat aaaaaaaaaa aaataaaaaat aaaaaaaaaa 60

ggatataaaa aaaaaaaaaa aaaaaataaa ataaaaaatat ataaaaaata gaaattattt 120

tattttaaatt aaaattttatt tatatgtttt atgattaaat atatttttatt ttttttaaata 180
tatttttattt tttattaatt gggtttttctt tttttaaaat tttttaatta ttatttcatt 240
ttttttatct atttttatttt tattttttttt tttattttatt tttttattta tgtttttatat 300
ttaattattt tctttttata aatttttttta ttaaattttt gcttattttt tttttttttt 360
tttaatcatt tttttattttt ttctttttttt tttgattttt tattttttttt ttttctttttt 420
tatttttttat attttgtata tttttttttt ttgtttttttt attttttt 468

<210> 29307
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-E2

<400> 29307

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ctacgcctcg gggaccgagt tctaccgca cctgctgctt ctgtgcgca acgcgctggt 120
cttctaccg cgcggtcg cccagcgctt cggcgcgcg cgacgcgcg cgctcgctcg 180
caagcacatg tccaaggatc agccggggcc ctcggggaag gctgtcgcg ggcccgcggc 240
gttcaataag gccaaaggcg aagccgacgt tgggtcgctg ctggagaaga ctgc 294

<210> 29308
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-A11

<400> 29308

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caccagacc cagcagctat tgtggctgct cctcagccgc gtcgcaccgc atcgattct 120
acgattcgaa gctctctctg ctgcagcca tggcgaagaa ttaccaacc gtgagcgccg 180
agtacagcga ggccgtcgag aaggccaggc gcaagctccg cgccctcatc gccgagaaga 240
gctgcgcgcc cctcatgctc cgctcgctg ggcactccgc ggggacgttc gacgtgtcgt 300
cgaggaccgg cggtcccttc ggtactatga agtgcccggc ggaactggct cacggcgcca 360

acgcggggct ggacctcgcg gtgcggctgc tcgagcccat caag

404

<210> 29309

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-A12

<400> 29309

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atgaaccaag tgcttatctt gattcggagc agcgtattgt ggcctcaaag gttatcaaga 120

gattcattct tcacgcgaag aaaactgcat ttattgttga gcatgatttc atcatggcaa 180

cataactggc tgacaaggctc attgtttatg aggggcgacc ttctattgat tgttctgcca 240

atgcaccaca gtcttttagta tccgggatga ataaattctt atcgcatctt gacattactt 300

ttagaagaga cccgaccaac tataggccac gtataaaciaa gttggactct acaaaggaca 360

gggaacagaa gtcggccggg tctactact acctcgatga ctaatgagga agcacagatt 420

cttcttgagg agccatatgg cgcatagtct tt 452

<210> 29310

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-A2

<400> 29310

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tcgggcttgg ccacggcgcg cgtttcgcgc gcaagcatgg acgtgctgcc gctgagatgc 120

cccagtcgga gccacaacct aaaactaagc cggagcccca tatgcagaca ctgaccagc 180

cagaacctaa accgaaacct atgccacatc cagagccaaa gcctgaacct taaccaaagc 240

ccaaccctga acctcaacca atgcccaagc cttaacaaaa atccaaacca gagccattgc 300

ctacaccgaa gcctgaacct aagcccgaac ctaagccaga gcctaagccc gaacctaaaa 360

ttaaatcaaa gcccaaacct ggacaaaaac cagagcctat agcagagcat 410

<210> 29311

<211> 376
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-006-Q1-K1-A3

 <400> 29311

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 gacggcgccg ccggagcagg cgcagtccat cacgcgcgcc atcttcgacg ccgtccggga 180
 gcacgggtccg ctcaccgtct ccgacgtctg ggaccacgtc aaggatgtcg ggcttcgagg 240
 tctggcaagc aagaggcaga tgaagatcat gctgcggtgg atgaaggagc gccagaagct 300
 aaagctcatc tgcgaccacg acggcccgca caagcagttc ctctacacca cctggtttac 360
 caaccccagg aacgcg 376

<210> 29312
 <211> 416
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-006-Q1-K1-A4

 <400> 29312

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 gatgaagctc gtcaggttct tgatgaagct gaacaacgaa acggtgacca tcgagcttaa 120
 gaacggcacc gtcgtacacg gaaccattac cggttatccg gtcgattatg gtttacatat 180
 acggacagct atcttcagat agtggtgaca tcagcatgaa tactcatctg aagactgtga 240
 agctgacact aaaagggaaa aatcctgtta cccttgatca ccttagtgtg aggggaaaca 300
 acatccgcta ttatatacct cctgacagcc taaacctgga gactttgctg gttgaggaaa 360
 caccaagggc caagcctaag aagcctactt ctgggaagcc cttgggccgt gggcgt 416

<210> 29313
 <211> 191
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-006-Q1-K1-A6

<400> 29313

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tgttttacat tgtcgtagtg tttgataaat gatggatggg gactggggtt gttgtgtcaa 120
ctgtcataac tattgtgcat ttttggacgc tatatgtgta gccttgatat gaatagattt 180
actgtactta t 191

<210> 29314

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-A7

<400> 29314

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tcccttccgg agatactgtg gaggtggttg tcgcaccgca caagcaagtc tcgccactcc 120
aatgggcacg gtcgctggcc tgttaagtca gccaggttca tattggattt gctgaagaat 180
gctgagagta acgctgatgt gaaaggcttg gacgtggaca acctctatgt ttcacacatt 240
caggtgaacc aagcccagaa gcagaggcgc cgcacctacc gtgctcacgg acgcattaac 300
ccttacatgt gcttcccttg ccacattgag ctgattctgt cagagaagga agagcctgtg 360
ataaatgacg ctgacaacat tgtcgcggca aggaagcagt gaagtatggt aacctgctga 420
taatggcatt ctttcgaagc 440

<210> 29315

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-A8

<400> 29315

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gcgaagacag ttttcaagaa gaaaaactgg atgtgcatcc tcttgctgta ttagaagaaa 120
tttatgctgc ccatgatgag cagaagcaat gtgatgtttt atcaccagta agagtattct 180
gatgaagggt ggcaagcagc tagtatgaga ggaagatctg caaatgtaag gaagaaaagc 240

agtcgcagga aaccggtctt tatgaaatta atgggttgatc attttgaaga tggtcataca 300
 ggttctgtgt ataggactgg tttaacaacct cagacaaaag gaggcaaaga agattctgtg 360
 agtgcttcta gccagctttc atttgaagt tttttgaaaa cggatt 406

<210> 29316
 <211> 224
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-A9

<400> 29316

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 aggtcgcaga tccgtccggt tagacgaagc cggccgcacc catggcctcc ggtgagctcg 120
 cctgcaccta cgccgccctc atcctcagcg acgaaggcat cgccatcacc gccgagaaga 180
 tcgccaccat cgtgaaggcg gtcaacatca aagtcgagtc ctac 224

<210> 29317
 <211> 340
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-B1

<400> 29317

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 gatttcaagg gcgatgggtt agcattattc ccaagctgtc atggatatca gtatcgcagg 180
 gtctgtaaca ggaccataat cgtcgaacat gagtctgggt ttttgagcag gctactctct 240
 agggtttgcg tcatttagtt gtgttttata tctggctact gtatagcctg agtctaatta 300
 tctgcaaggc cgtatggcat tctgagtggt tttggttttg 340

<210> 29318
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-B10

<400> 29318

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gatagcccca gctgccggaa tcaccacgga gcagatccaa aagtatctgg atgagaataa 180

gcagcttatt ttggctatatt tggaaaatca gaacctaa aaattggcag aatgtgtctca 240

gtatcaatca caacttcaga agaacctctt ggaattcgct ggaatcgcaa atgcccaaca 300

cgagactggt gtaagccgga ctcaaatgc gccgcctgg tggatctcct ggagtagggc 360

agtccatgtc acaggtgcct atgttccac cgaggacacc tttaacaccc cagc 414

<210> 29319

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-B12

<400> 29319

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gattccagtt ttgttttagc aataattata acacaatata tgacaataat tttgtgtggt 120

tacaataatt tactaatggt aaacatgaga tattggcaag ttttaataaag cttactgtt 180

tctttgttat ggagtaatgt tgtaatggtt tttctgtttt acaaatttta gctattttgt 240

acaaattttc acaaatactt taattatttt gtaccaatgt aaaagcacct gaacatgtat 300

tggtcaagtc gactctattg aatagaattt tgaaagaaag attcttgatc acccaagtta 360

aaagagaaac ttagccttgc ctttcagatt aaactagagg agacatgtat gaaaatggct 420

ggaaagacta caagatgcaa ttaatcattt 450

<210> 29320

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-B2

<400> 29320

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cgcgaaat tttt atttgacagg ggagagttat gctgggtcact atgttcctca actgggtcaa 120
gccataaaaa ggcaccatga ggctactgggt gacaaatcaa ttaatctaaa gggctatatg 180
gtaggggaatg ctctcactga tgatttccat gaccactatg gaatatttca attcatgtgg 240
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tccttcgtgc attcgtctgc acagtgtgat aagattatgg atattgctag cactgaatct 360
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<210> 29321
<211> 95
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-B3

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tcgcggacgc gtgggaaaaa ataaaaaaaa aataa 95

<210> 29322
<211> 306
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-B6

<400> 29322
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ttaagaatga gtctacatgg catgtgtaat ggctcctgggt cttgtctata ttgtgggcac 180
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tacgtttaat ggacaggaat ctggttgcaag ctttgcaaaa ggcaatctag ctggctgatg 300
ctgctt 306

<210> 29323
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-B7

<400> 29323

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ggttctagaa agaggctgcc gagatgaaca agcggtcatt caatgttgcg tgggtgcttg 180
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agaccaccaa gtactactgc actgttattg atgccccggg acaccgtgac ttcacaaaaa 300
atatgatcac tggcactttc caagctgact gtgctgttct tatcattgac tcaaccac 358

<210> 29324

<211> 239

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-A10

<400> 29324

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tgaacatgat tggagtgccg tcgacgagcg agtacgatca catggcccct tttgttgact 120
cgagaaactt tcttcaggtg aacatgcagc agcagcagcc ttagcactac ttccatcaac 180
tgcaaccaac gaccttcaa ctcggatgat gtaatttaga atcttttgcc aacaattca 239

<210> 29325

<211> 396

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-005-Q1-K1-G3

<400> 29325

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tgggtggcgcg tggcactgcg gcagctgggc gcaggcactg cggctctgcg cagccggggc 180
ctggcactgc ggtctgcggc ggccggggcg cgacaggagc agccgagccc ttcggtcctc 240
tgcgctcctt ccggttgctt cagagtctgc ctttagtgct gctggccggg ttgttgatcc 300

atatcgcaat cgncttgacc ctgagatggt acaagcactt atatgcacta aaaattggat 360
tcgtgcatca agaaaagatt cagtaattat tcattc 396

<210> 29326
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-G4

<400> 29326

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gaccaaggat gagaagaaag cgaagaaggc ggaggtgagc aagtcccaga agacgcagac 180
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gtagaacctg tgttgaattt gcaagactta ttcaagcgtt gcttgtgctg gctaaatacc 360
atggcaagaa gacggattta tatttatgcc tg 392

<210> 29327
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-G5

<400> 29327

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tccgcgcaga agagaaccct ctccaagtgc caccaagaga ttagcttta aaggagctc 120
aggccgctgt tcaatacatg gctgaatatg ttgccaagaa agccacaagg tcacaaccga 180
tgaagacaaa gaagacctgg gctcagtttt gctttttctc ccggcctaac aaaagaaagc 240
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ctacacttct gaagagaact atcgggtgca tcgccttcga tcgctaccat tgtgttgtat 360
gggtcaacaa gatgtgatgc ccagaagctt ttccttggaac aatgctgcag 410

<210> 29328
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-G6

<400> 29328

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tcaggatctg gacctcaggg tggcggcgac caggcgccgg aggcagagta tgaggaggtt 180
aagaagtgag gctgccggag ttcaagggaa ttgtaacggc ttgtttagaa gtagctcgct 240
tttttttggg aacgcacata gtcagatgtc tcagatgagg tgttaccctg gttgcaataa 300
tctatgaact ttcacctctt gtgttctcct gcagtgaac acgggtcaca acattgtcat 360
aggtcttatt gcgcatataa ccccttgtgc ccc 393

<210> 29329
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-G9

<400> 29329

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gaagacagct cagagctcac acacaggctc ctctcccccg ttgcgcaacg cgctttcccc 120
cacttcaccc gcctcggcgc catggctaag ctcgcgctgg cgctggcgct cctcctcctg 180
ctggccgtgg cgtcgtccgc gtcggccagc agcgggagcc acctggatct cgacctgggc 240
ttcctcttct ctggggaccg ccggaaggag tgccgcggga cgggtggcca gtgcctcgcc 300
gaggagtccg atgaag 316

<210> 29330
<211> 81
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-H1

<400> 29330

acaaggtgta ccactaccgg gcgtacaact tcaccatcaa catgttctgg tcgcccgttc 60
 tgggtgcgcgg cccggagccc g 81

<210> 29331
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-H10

<400> 29331

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 cgattatccg atcgaacaca caaggccaca agggactaac agcaattata gagcaccacg 180
 gcgctggcac agatggacgt atccagtcac acgggccatt gctgctgata tacgacacga 240
 gacacgagag gatagcaggg ccctgacaag acccaaattg gaccatgtcg aattattgcc 300
 gcatgcacag aaaagctcta gttttcctgg gcaccttcat tagccacggc ttccttctca 360
 accaccgacc cgcttggcctt ctcttcgggtt gtcgggcgct tctcagcctc agtggtgctc 420
 gcggtgct 428

<210> 29332
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-H11

<400> 29332

ctttcatcag cctgcctgtc cactgttggc ttggtgactt cctccgtcc gctcccctcc 60
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 ctggaagctt cgtcagccgc gtcctcgccg gcaaggccgc ctgcccagg agggccgtgc 180
 acgcctcggc gtacgacaag aacctggagg accaggtgcg cccggcgctt gtgccggacg 240
 atgtgatcgg cagcgccggg agcccgga agtactggag cccccacccc aagaccggcg 300
 tgttcgggcc ggcgggcgtg gaccccaagc tggccgctgg tggcgcgccg gacgccggcg 360
 cggatgctgc aagaggcacg gtgctggacc agaaggtgtg gttccgccc ctcgaggacg 420

tcgagaagcc ggccc

435

<210> 29333
<211> 250
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-H12

<400> 29333

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aggaaattgt atccggtgtt tctcttttctt caaattaaac cacgcacatg cagctgccgt 120
acttttttga ccattgaagt gtttcgtccg tgaaaaaggc tcctttttacc ttaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagggca aacaatttaa 240
aagatcaaaa 250

<210> 29334
<211> 208
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-H2

<400> 29334

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tgttatctca gctttaatgt tggctgaagt gagaaatgtc aggcagcaag agaagaaaag 120
atgcacatat tgccatggga ctgggtactt gccatgtgct cgctgtcctg ctagtggaa 180
gttatggacc acaaagcact tttaatta 208

<210> 29335
<211> 287
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-005-Q1-K1-H3

<400> 29335

cccacgcgtc cggtcagcga ggaagctgcc tgcttttcag atagttatta agatggcggt 60

gcttcgggctg cttgccttct ccttgccttt cgcagtggcc actcctgtca gggacatcgc 120
 cgatgatgcc tgctcgtcac aagtgaaggg tttccagcac ctgaacaaca gctcggggct 180
 ccacctgacg ctgcaccacc cgcagagccc ctgctccccg gcgccgcttg ccgtcgacct 240
 ncccttcttc gcggtgctcg cccacgacgg cgcgcgcata gcgtcgc 287

<210> 29336
 <211> 286
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-H4

<400> 29336

cggggtccac cgcggcggtc agggagcatg gtgggcggcg ggaggcgggg cggagcggcg 60
 gaggaggtca agctcaacac cggcaacgtg ttcgcggcgc tcgagtcctt caagaagaag 120
 aagaagggcg acaaaggcaa ggccggccggg tcttccttca ggaagaagca cggcgagggg 180
 gccgcgcagc ggcaagagcc accgcagaaa gagctgttct gggcgccccg gccacttacc 240
 accaagtcct gggccgacgt cgaggacgac gaccatgacg actact 286

<210> 29337
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-H5

<400> 29337

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 gcttaatgac gctagaaatt tgctaaacta ttgtagtttt gcaagagttc caacaagacc 120
 acgaacagtg cttgcaaaca ggaatgttgg accatgtcaa agagaaatta ctgtgtctga 180
 acagctcaat ttggttactt ctgaagaaat atccaatatg gcaatggatg gagaagctaa 240
 cactaatttc ataactagca tctaggaagg cagtaaagtt gagcttggtg gccaaagacca 300
 agaacatgct gaacaaagcg ctatctgcaa tcaagtggca gaatcagtgg cattccatga 360
 aaaggaaact cgaggtgaaa ctgaacaaaa aaagaacaa 399

<210> 29338

<211> 316
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-005-Q1-K1-H6

 <400> 29338

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 caacccttac acgtttggtg gcaaaattgg ttaattcctt gcctttgact tgatctggta 120
 gtaccaagga aataagcacg ggaaagatgc aagctttgtg tcgaacatgt gaaaaaaaaat 180
 atatatgtat gagcaatddd tgtcttdttt ttggggccag ttgtagctgt tactaccatt 240
 aaacagtaag caaaactggt tgcattttta aaaaaaaaaa ataaattdtt aattaaaatt 300
 tataatattt ttatat 316

<210> 29339
 <211> 174
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-005-Q1-K1-H7

 <400> 29339

 catatactac ggcggaacgg gacggttgtt tgccgcggcc gtcggctcctt gaaaagggtg 60
 gggcttdttt ggtcaatggg atcggttccc ttggcattgg tcttgagtc catgcttccc 120
 ttaatggcaa cccgccaagg gggaaaaaac ccacctaacc ctttgggaaa attg 174

<210> 29340
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-005-Q1-K1-G12

 <400> 29340

 cccacgcgtc cgcggacgcg tggggtggtt gtgtgccttt cggctggtgt agcattgaga 60
 ggaggcgtg ttccagttcc agttccagga tgagcaagga ggatgtgctc aagggtgcaga 120
 ctttgatgct gagagtgaac atacactgtg acgggtgcga gaagaaggtc aagaagaccc 180
 tccacaagat cgacggtgtc tatcagagca gcatcgacgc ggaacagggg aagggtgacgg 240

tgctccggcct gctggatccg gacaccatca tcaggaagct caacaaggcc ggcaagccgg 300
cccagctgtg gggctccaag cctggcgctcc ctcagaacgg ccatggcggc ggcaaaggcc 360
agcctaagga cgccggcggt ggcaagggcc attccaagga tgccggcggt ggcaaggccc 420
aaaagggc 428

<210> 29341
<211> 238
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-005-Q1-K1-H8

<400> 29341

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ttacggaagc ttcccaggtc ttctgtcaggc ttttctccgg caacgagcac cctgcacaga 120
tcgtgaacct ccacacctca acgatagatg gcgggggttca gaagccttgc acccaagacc 180
aggaacctgg tgggtggccgg gggactgtct ggcttcgtgc tcgggggtcta ctacttca 238

<210> 29342
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-H9

<400> 29342

cttgttctgt accatthttgt ggataacatg gggcaacatg tttttcttca ttgctgggca 60
taccaaagat ccatctgaag gtgttacagg tttgctaaaa ttcagctttt aaggaattcg 120
atccgcatac ttgtacctgg tctattgtca ggacttatgg aaaatcaccg gtttctcgcg 180
gaggtcagac agtgactctt gttggaacaa cactagtttt gttcgggtgg gaagatgcaa 240
aacggtgcct cttgaatgac ttgcacattc ttgatcttga aaccatgaca tgggatgatg 300
tggatgcaat gtaagtacaa gaatcttgat tcttaatgca cacctaata gaagataagg 360
ccattatttg tttcgtgaat ctttgcctatg tgagcttaaa atgtatcttt ttaaaagctc 420
ctagatttgg ttggcgcaact 440

<210> 29343
 <211> 67
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-006-Q1-K1-A1

 <400> 29343

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 cgtgggc 67

<210> 29344
 <211> 398
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-005-Q1-K1-E5

 <400> 29344

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 ttgacgacac gcttctggct cgatgtatat cctgtcaaaa aatttggtc gctgcatgaa 120
 catatatagt gcgtcactgg atagctatgc acacgatgat atatcagtag gttcatggat 180
 gatgggactg aatgcaactt acgtggatga tgaccggttg tgctgcagca ggtccagaca 240
 agagaaaatc tggtgcaatg cttgagcgga aggcgtggct gctggcctgt agctgtacat 300
 cctgatgaag atagtgcaca cctgtcattt tgtatacact gctttcgtga accggaaaag 360
 gctactatcc agatagaaac ggcttgccacc aaaaatta 398

<210> 29345
 <211> 401
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-005-Q1-K1-E6

 <400> 29345

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 gggtactgga atccttcctc tgaaggaagg caaccctccg aagttttccc agcgggctcg 120
 tttgctcaca gctaactatc aagttgttta atgggtgtac cgttgtccga gtgttgatcc 180
 acttaaatat attcgaatag catatctttt tgacatggta tgctactggc atgaactttt 240

gcaagtcatg ggatggaaga tcattttggg ttttgaaaat ctttactatg tgctttctcat 300
 tggtagcatg ttgcacaaat gttctgatgt gttgctacca gagaaataag taatgttctt 360
 gcctttcggtt tgcctgcatt ttgtaccctg tctttccct t 401

<210> 29346
 <211> 63
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-E7

<400> 29346

cggacgcgtg ggcggactcg tgggaaaaaa aaaaataaaa aaaataataa taagattata 60
 ggg 63

<210> 29347
 <211> 251
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-E8

<400> 29347

cggacgcgtg ggccaaatgt gaaccagaaa ttcaagaggt tagcccaatg accgatatat 60
 gcctcgaaaa gaaagccaag gcatactcga aaaaaagccc taaagatgaa agcgacactg 120
 aagatggcag cagctgggag acaataagcc acgaagatgt ccagggttca agcggttcac 180
 ctgatggaag cgagccttcg gtcagcaaca aggtctgcga cggaagcatt ccttgaaga 240
 gcagaaatgg t 251

<210> 29348
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-E9

<400> 29348

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gcgaccacat gaggatccac ccagcatccc ccaccgccgg cggcaagaag gacctccggc 180
gectgccgca cgtgtacagc aaggtgctgg agctgccgct cccggcggac accgacgtcc 240
aggtgttcga aggccagac gccttccact tcgtcgggc gccggccgcc ggtgcgctg 300
ccgccccac cgtgcgggtg cgcaccgtca ggatccaccc cggggtcacc aaggtcgtgg 360
tgcattgccg agccgccgaa cgggccgctt acgacgacgc cgtcagcgac agcatggagc 420
tcgacaggt 429

<210> 29349
<211> 205
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-F1

<400> 29349

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atcctgaagc aggaagatta gagcgtgac caggataata ggaaaaggaa acgaaggagt 120
attagctcac ttgaagatag gaagaggaag aggcaacgtg aaaaggaaga agatttggca 180
gataaaataa gggaagaaga ggaaa 205

<210> 29350
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-F10

<400> 29350

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ctaccaatat aaactcatag gaagcttact atgataaacc ttactagtcc tataaaagcc 180
caaaaatcta tgcacagact ctagacattc aattctacta atagaaattt agttcatgta 240
tctgattaac gatatatgag ataacactat atagtcaacg tttcatctaa caattgctat 300
tatttactaa tcatatattt tgaccattta gtttaacatt acttggtcac tatttcattt 360
ta 362

<210> 29351
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-005-Q1-K1-F11
 <400> 29351

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cccacgcgtc cgcggacgcg tgggaaaaat ttaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaagg gggggctggt ttaaaggatc aaagtttatt 180
tacgtttgat tgcaacgtta tagttttttt atagggtaat ctaatttaaa ttaattggcc 240
gtgtttttta aacttggttat ttggaaaaac cttgggtttc ccaaatttaa tggctttgaa 300
gaaattccct ttttagcaag ttggctaatt tgcaaaaggg ctctaacgtt tcgcttttcc 360
aaaaattttc taagtttaat tggcaattgg gaccctcctt ttaggggctt ttaaaccctg 420
tcgttttttg tggt 434
  
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<210> 29352
 <211> 335
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-005-Q1-K1-F2
 <400> 29352

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tgatgaacct tgggtgtgct actggccatt ctagctttgt catgtcctgc tcattcacta 180
accaggtcat tgcccaactt gaactgtgga aggagaagag ctctggcaag tatgataaga 240
agggtgatgt gcttcccaag caccttgatt agaaagggtc tgctcttcac ttgggcaagc 300
ttggtgcca gcttaccaag cttaccaagt cttaa 335
  
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<210> 29353
 <211> 393
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-005-Q1-K1-F3

<400> 29353

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caacgtgaag aatgttgctg tcaaggatct caagcgtggg tttgtggcct ccaactccaa 120

ggatgaccct gccaaaggagg ctgccagctt caccttccag gtcacatca tgaaccaccc 180

tgggcagatt ggcaacggct atgcccctgt gctggactgc cacaccttcc acatcgctgt 240

caagtttgct gagctcatta ccaagatcga caggcgtctt ggcaaggagc ttgagaaaga 300

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<210> 29354

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-F4

<400> 29354

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gttgacggag gagaggaagc ctcgaagatg ttccggaacc agtacgacac cgacgtgacg 180

acatggagcc ccagggggcg gctgttccag gtggagtacg ccatggaggc cgtcaagcag 240

ggctcagcct gcgtcgggct ccggtccagc acccacgcg tctcgcgct cgtcaacaag 300

ccgccttcg agctctcctt ctaccagcgg aagggtgttc gcgtcgctga ccacgccggg 360

gtcgcgctcg ccggccttac cgtcgacggc cgcgttctct cgcgtttct tc 412

<210> 29355

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-F5

<400> 29355

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 atgaggtggc gtgcagttgg tagacgcaga tggttctgtt taggatggtc acatgatagc 120
 agtttagcca ccatccctct attcattttc atgctagtgc gtctggtagt cagctttggg 180
 ttcctatagt aattgaggtt tgagagagac atgaggatta ggcatgcgca agggcgacag 240
 acgctcatga ctcatgagtt tgatgtgccc atgtgcaatt gacgggctga ggaagatctt 300
 agttgatcag ttggtgaat 319

<210> 29356
 <211> 316
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-F9

<400> 29356

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 ctactgatag agactcatgg gtggccttgc atgctgtacc atactaggtc tatagaagcc 180
 caaaaatcta ggcacagact gtggacagtc aaaagtgcta atacaattta gtctcatgtt 240
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<210> 29357
 <211> 442
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-005-Q1-K1-G10

<400> 29357

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 gcggcgaaga agcctgcaga ggagcccgcg acagagaagg cggagaaggc tccggcgggg 180
 aagaagccca aggccgagaa gcgcctcccg gcgggcaagt ccgccggtaa ggagggcggc 240

gagggcaaga aggggaaaaa gaaagcgaag aagtccgtgg agacctacaa gatctacatc 300
 ttcaagggtgc tgaagcaggt gcaccccgac atcggcatct cgtccaaggc catgtccatc 360
 atgaactcct tcatcaacga catcttcgag aagctcgcgg ccgagtccgn caagctggcg 420
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<210> 29358
 <211> 374
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-005-Q1-K1-E4
 <400> 29358

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 taccaagtgg atccaccaca tccagcgcct cagcgcggcc aaggtgtcgg cggaggcggg 180
 ggagcggggc cagagccgcg tcatcgacgc ctctctcacc ctaattcgcg agcgcgcaaa 240
 gctcaaggca gaggtgctgc gtgctctggg tggcgtgaaa gtttcagcgt cgctcttaag 300
 ggccctctt gggcacaact tattctttttt acaagggcct gcatttggtt cttcacgcat 360
 accggaaggc attt 374

<210> 29359
 <211> 441
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-005-Q1-K1-G11
 <400> 29359

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 cgaggctagc taagctaaga gatggcggat caccagtact cggcgtggac gacttccgct 180
 gctcgtcatc ggggtcttctc ctgtgcgctc atggctcttg ttagttttgt ggctgcagga 240
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gtccccgagg gcaagtcgag gcgcgtcgtc gcgccggcca actggaacgg gcgcttctgg 420
gctcgcaccg ggtgcaactt c 441

<210> 29360
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-C4

<400> 29360

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atatctggct tctgtcagtg aagactcggg cagaatatgg tcattcagtt ctggacgtga 180
tggtgaattt gtgcacgaat tgaatcgagc tggaaatcag ttccactcat gtgttttcca 240
cccaacttat caatccttgg tagtgattgg ttgttaccag tccttggaac tttgggacat 300
aaaggagaag aacaccatga cctttaacaa tgcccattac cggttggttg cagcccttgc 360
aacattcaat gcaacaagga aaggt 385

<210> 29361
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-C5

<400> 29361

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aacctcgcgc tccccacggg ccgcgcgcga gacggacgcg ctcaacggcg gcgtcgcgga 120
ggaggagcag gtccccatca cccacccgcg aaagtcttac gtcacgctcg ccgacgacaa 180
ccccgctcct aacggcgggcg tcgtgaaaga ggaggagggc ggtgcccaca ccaccgcgaa 240
gtcctacgca gctgtgcgcg cccaagccga gatcgaggac ctccgcgcgc tcaagctcga 300
cctggaggag aagctcgcgt agggccgcgc tgagaacaag ttctcgcgcg aggagacgca 360
ccgcaacgag gggatcttca cgc 383

<210> 29362

<211> 339
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-005-Q1-K1-C7

 <400> 29362

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 caccggcagc gacgatgtcg gggcgcgga aggccggcaa aggtctgggc aaggcgagg 120
 caaagcgcca ccgtaagggtg ctccgtgaca acatccaggg catcaccaag cccgcgatcc 180
 gtaggctggc tcggaagggc ggcgtgaagc gcatttcggg gcttatctac gaggagaccc 240
 gcggcgctct caagatcttt ctcgagaacg tcatccgga cgccgtcacc tacaccgagc 300
 acgcacgccg gaagactgtt acccgcatgg acgtcgtct 339

<210> 29363
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-005-Q1-K1-C8

 <400> 29363

 acctgatttg tttaccccc gaaaatttgc cgtctcctcg tctcgtctct ctccctgcgc 60
 agccccaga tccggcaccg cccgctcttc gatccccga cccacgccc gcaggccggg 120
 accggcgggg tcgcgcgccg ggtaggagga ggagaagagg aaggcggtg tggcggcgcc 180
 gccggcgagg gcccgggccg actacgacta cttatcaag ctgctcctca ttggagacag 240
 cgggtgggtg tgctagatct ctctgtctca gtaaaccggg gtgtaagggc gtacgctcta 300
 caccgctcg cgttcgtggg atcggagttg gattccgggt ttggcaagag ttgccttctg 360
 ttgcggttct ctgatggttc cttcactaca agctttatta ccacaattgg 410

<210> 29364
 <211> 201
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-005-Q1-K1-C9

 <400> 29364

cacgcgttcg atggtgcgcc ctaattcgga tgactccaaa tactggatga agcgtctaca 60
atgtcggcca ggttgtcatc tcattctggtg ctaaaggctg ttcgtctaata gaaccgaag 120
cgttgtgtgt gcggcatggg tagcctatga tccacttgac tttatctgtc atagggtgccc 180
tgtgctttca gactttgctg c 201

<210> 29365
<211> 324
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-005-Q1-K1-D1
<400> 29365

ttcccagatt tcaaccaagg gggggaccat tatggccttt acaagtgaac ccaccgtttc 60
ggcctatgcc taaccaacg gcaatgcatg ggtcacagag tcagatgatg ccccaaagtc 120
cacagcacat gatggggcta aatcagatgc atgctggttc tgggccttct ggtactgtac 180
ccccaatggg tgggttccca agtgggatgg gaaacattca atgagcatca agttcgtctg 240
gcgtacaaaa ttttctatg ggtggcatgt attatccgcc ttaaggacaa atggcttcac 300
aagggaacat gacattcatt tctg 324

<210> 29366
<211> 340
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-005-Q1-K1-D10
<400> 29366

aagatgcgta cggactgttg tatggaacct atggctaatt ggcattgctat ctgagagcga 60
ggttctacac tggatagcta gagctcatgc gaccgaatag atggtggatg cattgatggt 120
agagaggaca tgtcccaata tgtgaggctg agcatcactg agacaactcg atcactcata 180
ccagttatca aggagaatgt taagagtatt acaaattgac gagccaccat aaatctcagc 240
tgtgacctac ttgttcatga ttgatgctaa cctgaccaag cattccatgc gttggatgaa 300
gttgatttag ctaactgatt cttgatatga ggtctatgct 340

<210> 29367

<211> 336
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-005-Q1-K1-D11

 <400> 29367

 gcgcgcggcg gcgggcgtag ccatgctcca caagtctcg ctcgcgggtca agaccaagac 60
 catcgagttc ttccgcgagg aggaggagga cgaggacgag gacgccgacc ggtccgcgcg 120
 ctctccgttg ccggggggcg acgggggtact tgccgggcag cgggttgctg tgctgaagcc 180
 cgacccggcg aaccctaacc ctagcgcgga tggggacggg aaggcggcgt ccgggcagga 240
 ggccgcgctc gccgcggcgc tcgcgaaggc ctcgtcgttc caggcggcgt acctgcacct 300
 gcaggccgcc cacgcgcgt tcttgcgga cgcggc 336

<210> 29368
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-005-Q1-K1-D12

 <400> 29368

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 atccaaaggc attttatgat gcatttggtc ttgcgatgta tgatatattt gccggaagca 120
 tcaccacata tatgttgggg ctttgggttag tctctcgtt ttttttcaa ggaggttgca 180
 tagggtacat agtgtaatct tttctatttc gttcctagat ttgtcaagag atggcaatta 240
 tttgttgag aaagctcgtt gccacattct agtcattctt ttcttagtgg tttcactgct 300
 catctggttt ctgtaatttt tcaattgaag gccaaatgag caaagtagta attggagata 360
 gaaatatgtt actactgtcc tatctatcga tctccaataa attagcgttg caatgtanaa 420
 t 421

<210> 29369
 <211> 263
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3067-005-Q1-K1-D2

<400> 29369

tcgcccacgc gtnccgcgacg acgacgaccg gcggcgagcg cgtccggacg acgttccccg 60
aagacagcgg caggggtcgg gcgcccaccg acgtgccggg tgccaccgag gaagagaggg 120
gaggcgccgg aggagacctc gagggcggtc ggccgtaccc ggaaaacggc agcggcaggg 180
gccgtccgcc gtggtactac acgggcttcc accgcggcag gcagcaagag caagaacagc 240
gggacttcgg gatgagcgac acg 263

<210> 29370

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-D3

<400> 29370

tcggctctgt gaaacaagcc attgaacctc ttaaaaaatg tggggtcagt gatggagaga 60
tatgcatgat agcaaacatt gggcctgaga ccgttgaaga ggtttatgca ctagtgccat 120
ctctcaaggc taataggtca gctatcgaag gttcagtcac tgaggttctt accgccctcg 180
caaacataaa agctgctaag tgaatctcca atggaactag accgacaata aatcggaagc 240
agctgtcttg ttgatcgagg agcgcggaat ctgcaaactg gcccttcggg gttttggatg 300
tgctgcggaa acgtgttatg atgtgtatat taaaaacgta gcatgtgctg catgaacttc 360
tgtaggatgt ctaactactg aagtgcaa atcagccttaa ctagtctac 409

<210> 29371

<211> 65

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-D4

<400> 29371

aaatacaaat aatcggtaca cgggccactt tatgggcccc aagaatgaaa aaaggggcta 60
gtggg 65

<210> 29372

<211> 340
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-005-Q1-K1-D5

 <400> 29372

 cggacgcgtg ggcggacgcg tgggcggacg cgtggggctg agcttgctgc agcagctgca 60
 caacctcttc ctgatgacga tgatgatctg attgagtaga aaggatcatg agtcttgaac 120
 ttgagcatga gttgcgcctt gcatgttata agttgttcta gggatgaactc tctagttctc 180
 attggctgga tcatctgcat ctcttggat gtgtacgcat gatatgagtg tggaaatgga 240
 tggatcttct agacatgaat tcgctggcta ctttatacat tgggtgtgtca ctctgtttga 300
 tgataaactt tgttgaggca atcctcttag tgctgatata 340

<210> 29373
 <211> 378
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-005-Q1-K1-D7

 <400> 29373

 gacccacgcg tccgcccacg cgtccgcgga cgcgtgggtc ccagcgcaca gctctctca 60
 tcggcgcacc cgagctcgcc ctctctctcc tcatcgaggc ccgagtcctg ctctgatggc 120
 gaccgacgtg gctgagactc ccgcgccgtt ggtggatgcg gccctgagg cgcgcgcgga 180
 cccccggcg gcgcctgctg ttgacgcgaa gccggccaag gccagaagg ccacagcgcc 240
 gaagaagcgc gccagcccga cccatccgcc gtacgccgag atggtctcgg aagcgatcgc 300
 gtcgtcaag gagaggacgg gggccagcag ctttgctatt gccagttct tggagggcaa 360
 gcacaaggac aagcttcc 378

<210> 29374
 <211> 411
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-005-Q1-K1-D8

 <400> 29374

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 ggcacttttg caaggctcct ggagtgccgc acagccacac caagccgtat gtgcgctcca 120
 agggaaggaa gttcgagaag gtcctgtggca agaggaacag ccgtggattc aaggtttaaa 180
 acaaattgtg gccctccgtg ttgccatcag catagtgcaa ccgttgtgtt tgatcaatcg 240
 acagtaatta gtcactactc tgtaccgaga ttagtagcac aatttgttgt cctgggtttga 300
 attttgaag atatttgatg tcgtctcctt attatctact cgttactggg tgagcacgaa 360
 gattgttttg tgatactcct acatgattta agacggttcc cgacgttcca t 411

<210> 29375
 <211> 447
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-005-Q1-K1-D9

<400> 29375

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 gtcctctgtc tgggtcctga tatcacatgc caacagttgc tccctgtcgt cattgcttct 120
 tcaaaggaca gggttccgaa catgaaattc aatgtcgcta aagtcctgca atcacttgta 180
 ccaatccttg atcaatctgt tgtggagaag acagtgaac catgcttagt tgagctcagt 240
 gaggaccag atgtagatgt aagatactac gcacaccaag cccttcgggc gtgtgaccaa 300
 atggtgatat ctagttgact agcctgtcca ggaattaaca aatgagatac atattggtct 360
 attctttttg aacattttta agtgttatgt agtcttaaaa atattgtacc accaatgacg 420
 ttgatgcac tttntattaa ttatgtg 447

<210> 29376
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-E10

<400> 29376

gatgaattct agcccggact gtgacttcgc ccgattctgc gaccgcaagt acagacagct 60
 gatccatcca ggcacgagt cctcactgtt cgggaactcg gagtgcggga cactgccggt 120

ggtgagcgtg gccggccac tctacgagct gttcgtggca atggcaagct cgatctggac 180
 actccacagg ttagcatggg catacgaccc cgcagtcggc atattccagg tcggccgggg 240
 cgcagagttc tcgacggtgt acatggagaa cattgtccgg tcgaagaagc gttttgcggg 300
 gagcaaggag ccccggaagc cgggtcggcc gaaggtcggg ttcacggtgg tgccgggctt 360
 ccggctcgga gggacagtga tccagtgtac ggtgtatctg gatcacggga agaggggaaga 420
 agacattaca gattcggg 438

<210> 29377
 <211> 221
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-C12

<400> 29377
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 ataggtcgta gggccctcgc cgtoctatt ttcttctcgt ttgtgtcttg ctgctctcgt 120
 ggtgaactcg ctactccagt gctctgcaat attaagcaga agctattgta ttgtttgggt 180
 cgtttgtcag ctaaattgaa atgcgatgga catttactag t 221

<210> 29378
 <211> 157
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-E11

<400> 29378
 cccacgcgtc cggtcagttg ttagtgctgt gttcatcctc gggtccagca gacccatgca 60
 tcaaccagca tggactgtgg atcgatggat gctgttactc ctgtcaggat ttgttctaag 120
 ttaatcctaa ggaaaaaatg gtgcttcttg gtgctgc 157

<210> 29379
 <211> 397
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-005-Q1-K1-E2

<400> 29379

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gtgcactgag atgtggcttg acggccagaa ggtgcactac caaacgaagg ccaaggagcg 120
gaatcgcgct gtcctctctg gatatgtgtt gctccagcac atccccctcg cattgtaagt 180
aaaagttttg gttcttaaaa ttggtgcccg ctgaaagcat ttggcttggc tgggataaat 240
tgagcacgaa gtgggctgcc actgtaatga tagccatgta tgggtctgca cataacacat 300
tcgtaccgga ttgattagaa gcacgtacca cttaaaaaaa aacaatattg tttttaataa 360
aaattatata tttaatacaa ctacaatatt ttataaa 397

<210> 29380

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-A11

<400> 29380

caacgacatt ccgagcccat cattatcacc tcattctcac agcctactac cagcagcat 60
gcgcgggaga tcttttaacc tcaggtagct taatataatg aatagaggtg cagacttcct 120
cgatttacag atatagagta agcaagcagc agaatcttta ctctgaatgc gaggtgcaat 180
cttactatga actatgggtt tgccatccat ttgataagct cgttgatgac actcgatcat 240
tactcgatga tattttggct tctccttatg gcgcttcac tggttgatgc tattctctta 300
ttgaactcgc gtgctcttat 320

<210> 29381

<211> 249

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-005-Q1-K1-A2

<400> 29381

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caacctcaac ttctctcaat gcttcttatg agcaaagtgc tgataacgtg ttgtaaatca 120

gtggtaacgg gacacgaaaa tgtagagaga aagtgacagt tgtattgatc tcatgaaatg 180
 tgtacatata tatacatagt gaagagacac cacgaaaggt cgcaaaaaaa aaaaaattcn 240
 atattactt 249

<210> 29382
 <211> 394
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-005-Q1-K1-A3
 <400> 29382

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 tcggcggccc agctggtggc tctcgggcta gcgctcctct gcgctgtcgc cggcccggcc 120
 gccgcgcaga actgcggctg ccagccaaac gtctgctgca gcaagttcgg ctactgcggc 180
 acgaccgacg agtactgtgg cgacgggtgc cagtcgggcc cgtgccgctc gggcggcggc 240
 ggcggcggca gtggtggccg tgggtgcgaac gtggctagcg tcgtcaccag ctccttcttc 300
 aacggcatca agaaccaggc cgggagcggg tgcgagggca agaacttcta caccggagc 360
 gcgttctctga gcgccgtcaa ggcgtacca ggct 394

<210> 29383
 <211> 280
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-005-Q1-K1-A4
 <400> 29383

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 tcgaggaagc ccagacaacc catgagagac ccaaaggtag catgatggtg tgagaatggg 120
 ttcttttggg ctaatgctca actctgtcgt ccttggtatt acctctgttg tgctagaaaa 180
 gttatgtatg aagtggggag ctggacttgt atgggggtgc ttcaatattc taatgacttt 240
 gtgcttcttg gcaatgcttg tgataacata tgttgcaaag 280

<210> 29384
 <211> 370

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-005-Q1-K1-A6

 <400> 29384

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 atgatgagat catggctagg ggaacctttg ccaacattcg tcttgtgaat aagttcttga 120
 aggggtgaggt tggacccaag acaatccatg ttccatctgg ggagaagctt gcagtttttg 180
 atgctgctat gaaatccaag aatgaagggc atgacactat taccctggct ggtgccaagt 240
 acggaagtgg aagctctcgg gattgggctg caaagggccc aatgctgcag ggagtgaagg 300
 ctgtgatagc aaaaagcttt gagaggattc accgaagcaa tcttgctggc atgggaataa 360
 tccctctatg 370

<210> 29385
 <211> 371
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-005-Q1-K1-A7

 <400> 29385

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 tgcggcggct gcaagatggt ccctgacgtg gagaccgccg gcgtcggcgg cgtgaagccc 180
 acggtcctcg ccgccccgc caccaaggcg agcgccggcg ggttcgaggc ggccgccgag 240
 ggcggcggct gcgactgcaa cacctgcaac tgcggcacca gctgcggctg ctctgctgc 300
 agctgcaact gagccacccg cgatgaccag acaaccaccc gggcttcccc ccacccatcg 360
 gactacaact a 371

<210> 29386
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-005-Q1-K1-A9

 <400> 29386

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 tatgctccat ggggggcagt tatttgacat ctggcgcat catctaattg aaagtgggtgc 120
 agacttcctt gatttacaga aatcttataa gcaagcatca ggatcttttt ctgaatggag 180
 gggcaagctt actatgaact ttgggttttgc cattgatttg ataagcttgt tgatgtcact 240
 tggtcattac tcgatgatat ttgggcttcg tgggatggcg ttttatctgg ttgatgcaat 300
 tctcttattg aactcgcgtg ctcttatagt ttcctttttg aagaggatta aagcttacat 360
 caagttacgg aaggcactta gttcactcga tggagcactt acagatgcta cgtatgatga 420
 aatatgtgca tatgatg 437

<210> 29387
 <211> 195
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-005-Q1-K1-B1
 <400> 29387

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 gggccttaac cagaaggacc cgttcccaag gttcaagggt taaaagtcg ttcaagaaaa 120
 aaagggtctt gagggtcatt tttaaaaagg aatgcaacac aaccgaaga acaactttcc 180
 tggttaaact tatta 195

<210> 29388
 <211> 431
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-005-Q1-K1-B10
 <400> 29388

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 gaacttcgac ccgaagaacc cgtatgccga cccggtggcg atgctcgagt accggaaca 120
 cctggtgcga gagaagtgga tccagatcga gaccgccaag atcatccggg agcgcctacg 180
 ctggtgctac cgcacgcagg gcatcaacca ccaccagaag tgccgccacc tcgtcgacca 240
 atacctagag gctacccgcg gcgtgggttg gggcaaggat gcccgccgc ctgaactcca 300

cgagcccaag aagaccgtca aggcggagta gcggcgctgc tgccttgctt ctctgtgtgc 360
 tgttcctgga ttggagaggt gatctgaccc ttccattgag tttgaatgaa gtttccttga 420
 actgtggtag t 431

<210> 29389
 <211> 354
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-005-Q1-K1-B11
 <400> 29389

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 gaacggtctc catcaagtca gccggtggaa ccattctcaa actttggtgc cccttttgac 120
 aggtaggtct acttttagaga cgagacatat ctaccaagt tcacgtgtga tcagcttaat 180
 cattaccgat cagattcagt ctacctatga tcttatatac tactggataa taccctacat 240
 tgggtgtgtac ctttacacgt ttatttctac tattgttttg ctgtctgtct gattgcttat 300
 tattgtgttt atctatatta aaatgggcgc ttcttgtatt gtttttatac tttt 354

<210> 29390
 <211> 410
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-005-Q1-K1-B2
 <400> 29390

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 attccaaaact gctactctgg aggatgatgc tcttaaagga atatcaacca tcaacatcaa 120
 gcttgatat gacgatcagc ttgaaaggct caaggaaaaa gagcaaaagg acgctaagaa 180
 gcgccagcgc ttgggtgaaa atttttcaga tcttttgtat tccatcaaag aaatatcagc 240
 ttcttcaaca tgggatgatt ctaaacagct ttctgaggat agccaaaagt tcaaggcctt 300
 ggacagtgag acttatgcta gaaagctttt tgaaaaatgc cgtgtccacc ttaaagaaaa 360
 ggtaaaagag aaagaacctt tgaaggaaga aaaaaaagca aaaagagaga 410

<210> 29391
 <211> 176
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-005-Q1-K1-B3

 <400> 29391

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 ctagtaagtt gacggataat gatcgatatg caaatttttt ttgggtgttcc atggctctaa 120
 tacagccaga cttcactagg aactgtgtcg ctgtttatgt tggcagttgg ttctag 176

<210> 29392
 <211> 182
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-005-Q1-K1-B4

 <400> 29392

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 gttgaagatg acgcacgagg agcagctctg cttttggatc aatatccaca atgctctggt 120
 catgcatgct tttctggcct atgggtctgca cgacaagcgc atgaagagca cggacatgat 180
 tc 182

<210> 29393
 <211> 362
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-005-Q1-K1-B5

 <400> 29393

 cccacgcgtc cgatcacgcg tacggccacg catgctcgga cgcttgagct cgaatcatgt 60
 cgtacaagcc ggcattgtga agaaggagca catcaagatt catggtttct gagcaaccgc 120
 cgggtccata tcaaaccaac cctgcatgca gggcatctta ttatatataa tatctgaggt 180
 ggagcatatc tatctggctg tgtactgcaa gcaggcctag tacgccgtct gcgcgttcct 240
 cctattacac atataggccc ctccctgcgt gtatgcttgt taccgtcgtg ttcaaccttg 300
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aa

362

<210> 29394
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-B6

<400> 29394

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gaggccgcgt cccagtgcga agagaccacg actcagatgg ccagccgctg ggtccggccc 120
gagggtgtacc cgctgttcgc ggcaacgggc gtggccgctc gcatctgcgg atttcagctc 180
ttccggaaca tcaccggcaa cccggaagtc agggtaaaca aggcaggag ggcagctggt 240
gtgcttgaga accatgagga ggggagacgt tacgccatgc atggcctaag aagctttgtg 300
cacgacaaga ctcttgagat catgcctgca gttaacaagt tcttactga ccctaagtga 360
agcatgttga ttggcatact actactacta ctacttgcta ctgtggattt t 411

<210> 29395
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-B9

<400> 29395

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cgtccacgca cgcgtacgca cccttaatgg tcacctaacc taggtggtca agctcaaggg 120
cctggacatc aacaccatac agcacaacta cacagagtga gagccctct gctgcaatgt 180
ctaccacaac acctttgctg cccgacggga gccatctgat tacagataaa aattttacta 240
gctgtaaaagc tctataccac cagatactgc catatgatgg tatggttggg taccgctctt 300
tctagggagt ttcttttctc tctctcttta ttcttattgt tatgtttttc aatagtggag 360
tgtgcgcgtg ttgtaatcgt ttttacctgc gtttttctct aactagccgg tgacctttcg 420
ggaagcgagg tgaataaata atgcatctaa aattctttgc c 461

<210> 29396
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-005-Q1-K1-C10

 <400> 29396

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 ttctgcctcatcatctggggcgccgcccggccgtacgagccgaggtcatcgtaagagc 180
 ttggtgatggacgacttctacgcggtgaaggcacggaccacagcggcgttccaacaaaa 240
 ttggtcacaacaaactgttctctgcacatagctgtctacaaccctgccacaatgttttga 300
 attcatgtcattctggcccctccacctgatgtattcagagatcccaatagcagtcggt 360
 cagagcttggatggacgacttctacgcggtgaaggcagcgaccacagcggcgttcca 420
 acaaaattggtcacaacaaa ct 442

<210> 29397
 <211> 419
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-005-Q1-K1-C11

 <400> 29397

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 cagcagcagttcaccttcccctagacggcgaggtagaaa gaaccctgtgcattgtgtat 120
 gcggcaggta aagcctttta tcccttgactctatctgtatcgtttgctgtgcttggtgac 180
 ttgctgtgagttcaagtattggttcgagga gaagatgaga gaacgctaca gcaatgctcc 240
 aaacggatctgctcaacatgcctgggtcgacgcacctagtttgtgtggtctaccctagaca 300
 gaattatctgctgtgttggcttgtgtactttgattgtacc ccaagtattttgaagttctg 360
 aacttatttc tgctaaaaaa aaaataataa aaaatataaa aatattatct aataatttt 419

<210> 29398
 <211> 282
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-G2

<400> 29398

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tctgaggttt atacgtgtaa attcttctgc tagtgagatc aagatgaagg gtacaagagt 120
tgcatgaacc cactaaccat tggcgggtcaa atgagttctt ttaaatagct tcagattttc 180
ttgttatgta ccaaaccggg ctgccactag tgcaatgatc tcagaaacat agaggacatc 240
ttatgaaact atagaagccc atggctgttg ttcccacgt gc 282

<210> 29399

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-G3

<400> 29399

cccacgcgtc cgcccacgcg tccgcccacg cgtccgccc cgcgtccgcc cacgcgtccg 60
cccacgcgtc cgaggaagggt gtccaataaa aaaaaaatc gccgccgtcg cccagcggac 120
cttctcctcc tcttccccgc acgccccgcc gctgggtcg tggggctaca ccccgcgccg 180
cgagtacggc ctggtgcccc tgggtgatcga gcataccttc cgcggggagc gcgcctacga 240
catcttctcg cgcttgctca aggagcgcac cgtatgcac catggcccca tactgacga 300
tacggcggtc ctgggcgtcg cccagctgct cttccttgaa t 341

<210> 29400

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-G4

<400> 29400

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ttctacactg gtgatattgg tcagttccat cctgatgggt gccttgagat tattgacagg 120
aaaaaagata tagtaaagct tcagcatgga gaatatgtgt ctcttgcaa ggttgaatcg 180
gctctagcaa caagcaacta tgtggagaac atcatggatt atgccgatcc atttcataac 240

tactgtgttg ccctggttgt tccagcgcac caggccttgg agaagtgggc tcagaattcc 300
 ggataaacta tgaatgcttt gcatagcttt gccaaaacta cctaacaatt tatga 355

<210> 29401
 <211> 345
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-G5

<400> 29401

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 acaacagtca ctcagagcac acacattgag tgggtccaaat atttccagct atggaaactt 180
 gcagagtaac tgatactact acagcaaata gcagcaagtt aagctagatt gttaggaaag 240
 agcacctgca cctggctgtc ttcattagtg gatatactag acctggtact gaacatgtta 300
 gccattaccg ttataaggtc catgggcagg ttgcatttat gtaag 345

<210> 29402
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-G6

<400> 29402

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 aaaatatggc acccggtgta aataactcct gcattactct ctcttacatg ctctttcttt 120
 tcaccttttc ttatgtacct taccttcatt ttctatcctt atccttacia caacgtgacc 180
 gttatacaac tcaactgtcct attttttactt tcttctctat ctcatcatcc ctttgccata 240
 tctttctttt atcctcttgt cctttttcat tttttctttt cctttttttt ctattaaatc 300
 ccccatattgt tcttcctttt tttacttttt tattatcttt atttctctct tttttttccc 360
 ttcttatttg cttttaattt ttttcttctt ctttatttct tttttctttt tttttttttt 420

<210> 29403
 <211> 266

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-004-Q1-K1-G9

 <400> 29403

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 aagaacgcgt ctcatTTgac aagtGacagc ccatctgttt tctgccacca cccgcttcga 120
 ctaagttatg ttcaaactga tagatcccgt cgctgagctc gagctagctc atgactctta 180
 tcatcctgct caatgtgact gaatgccact tccatcagtG caagcagact ggtgcatcta 240
 tacatgcgct tcattcttgtt taacgg 266

<210> 29404
 <211> 266
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-004-Q1-K1-H1

 <400> 29404

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 tttcttgctg tgtccaaaat ccacaaatct gtcaataatg ataggcaggt tcgactgacg 120
 tggctgactt ggttgccac cggtgtttt cttacaacga gtcattgaacc ataccgtccc 180
 atcttttggt ggaagatttt actttggcaa ataattttgt ggcacgttat atgtaaagat 240
 ggtacagttt tagcttcatt gtccac 266

<210> 29405
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-004-Q1-K1-H10

 <400> 29405

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 ttgcgtcctt ccccgccact gcgcagcgcg agtgcgggca cagccagtca cacactcaca 120
 ctactcgac cgctctcagc cccgttcgcg tcgccgatg gcgaggaggc aatggcgggc 180
 ggcggggaatg gcaccgacgg tgacaccagg gcggccttcg cgcggatcta caagacgctg 240

aaggaggagc tgctcaccga cccggacttc gagttcaccg aggagacacg cgcttggatc 300
gaccgcatgg tggactacta tgtactcgga ggcaagtaga accgtctgct ctctgtggac 360
gacagctaca agctgctcaa gggcgcttat gctcattgca aggaggaaac 410

<210> 29406
<211> 448
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-004-Q1-K1-H11
<400> 29406

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gcacttgtat cagctatgga cccgagcaga gccggatgca aggagcagct ggctgcaagg 120
ggccggcaat cgctcgaagc tacgacagac gcgtcctcgc cggcaaggcc ggctcgccta 180
ggagggccgt gcacgcctat gcgtaccaca agaacctgga ggaccagctg cgcccgccgt 240
tcgtgccgga cgatgtgac gccagcgccc ggagcccaga caagtactgg agccccacc 300
ccaagaccgg cgtgttcggc ccggcgggcg tggaccccaa gctggccgct ggtggcgcgc 360
ctgacgccgg cgcggatgct gcaagaggca cggtgctgga ccagaaagtg tggttccgcc 420
cgctcgagga cgtcgagaaa gccgcccc 448

<210> 29407
<211> 281
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-004-Q1-K1-H12
<400> 29407

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acatatgcc aatatgaaca aacgatccat tatccagcaa aaaaaaaaaa aaacaataaa 120
aaaaaaaaa ttaaataattt taaaaaata ctgttataca tatacaatac attaaattat 180
tttaattccc tttacttgac ccatatggta ccattttaaa ttatcttact atgcacataa 240
aatctcttat ttcactgttc acctatatta tccacatgct t 281

<210> 29408
 <211> 265
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-004-Q1-K1-H3

 <400> 29408

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 tgctgcgtac agtacgtagt accatggcga agaaagtggc cactctgctg gccctcaacc 120
 tcctcttctt cgccttcgcc gactcatgcg gctgcagggtg cggcggatcc tgccctagtc 180
 caggcggcgg tggcgggtggc ggtggaggat ctggtggtgg tgggtggtgga agctgttggg 240
 gtgggagttg tggggggttg tcggg 265

<210> 29409
 <211> 252
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-004-Q1-K1-H4

 <400> 29409

 gatacgcggc ctgagaggtc tagtgcgcat ccaagcagac cagattgacg cagtcaggtt 60
 cctgccaaaca cgaagtgact gcaatatctt ccacgctaga gggattctgt gacagactct 120
 atatgatact ttaagatgta gactgagcaa gttgccgaac atatgaacgc acattatgtc 180
 tgattcaaga acgatgagag agtcctcgaa tcggatctct tcaccgaatc cattatccag 240
 accactgaat tt 252

<210> 29410
 <211> 382
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-004-Q1-K1-H5

 <400> 29410

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 aggtcgcttg atatcactag gtttagcagc tatcacgagc tccgtaggga actggggcgc 120
 ctatattggcc ttgagggcca gttggaagac ccattgagat caggctggca gcttgatttc 180

gtcgaccgtg aggaggacgt tcttctcgtg ggcgacgacc cttggcagta agcactgcat 240
 gcgacgttga ttcttttttt tttctgcatt cttcctcaca ttgcgttggc aacccaaccc 300
 cacagggaaat tcgtgagcac ggtgttctgc ataaagatcc ttctcccgca tgatgtgcat 360
 cagatgggga agcatggcct gg 382

<210> 29411
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-H9

<400> 29411

acggccacgc gtgcgcccac gcgtccgccc acgctttcgt ccacgcgtgc gcccacgcgt 60
 ccggggagat caacgtcgtc gttggggcca gccatcggtg gagccggtag tagagactac 120
 gaccgaggct agctaagcta agagatggcg gatcaccagt actcggcgtg gacgacttcc 180
 gctgctcgtc atcgggtctt cttctgtgcg ctcattggctc ttgttagttt tgtggctgca 240
 ggacgaccca ttgtgctcgc cgacgccatc gtctttcacg tggcgaacag gtgcccgttc 300
 ccggtgtggc cggcgctcgt ccttaacacc ggccaccag tgcttgccgg cggcggtttt 360
 tacgtccgcg aaggcaagtt gaggcgcgtc gtcgcgcctg gcaacttgaa cgggcgcttt 420
 tgggctcgta 430

<210> 29412
 <211> 175
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-A1

<400> 29412

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 atgaacttga aatcattcgt gccaggaag gaggaacccc aagcagcagg cgaaagctga 120
 gccgtcgacg gcgcaaacca gtaggatgtc tgctgcact ggaacaagca atttt 175

<210> 29413
 <211> 385

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-004-Q1-K1-G12

 <400> 29413

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 ccacatccgt atgagtacac cggagggccc tctgcaccgg tggactacaa caggcaatat 180
 gagcagagag ggagggctgg agccgcttgt agtggcacag gtaacggaat gtatagagca 240
 ggcaactgag tagcgggaga tgctgaggct gaagcccttg gagacctagc agatgtacat 300
 gcttaaggty ctgaagcagg tgcacgtgca catcggcata tcgtacaagg ccatgtccat 360
 catgaactac tttatcagcg agatt 385

<210> 29414
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-005-Q1-K1-A10

 <400> 29414

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 agaaggtagc tgtagagaag aaagctcctt tggatttttt tgggtgtata aatgcaaggc 180
 ctgtggctag agatttggtt atggcatatg caagacattc taagcatgaa gaattgaagg 240
 acttcttttt atcgactggg agacttcaag atgccgcctt tcttttggtg aaggaatcat 300
 gggaattgga gaagaacccc atggcaagca aggggtctcc tctccatggt ccacaagtga 360
 ggctcattga gcaggcccat agactttttg ctgaaaccaa ggaacatggt tttgagtcca 420
 aagcttctga agagcatgcc aaat 444

<210> 29415
 <211> 176
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-004-Q1-K1-E1

<400> 29415

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ggggtaggtc gtgttcggcg tccgtcttcg gagagttcca agagattggt ggtgcggctg 120
tgggttccaa gtggatccac cacatccagc gcctcatttt gttcaatgtg tttgtt 176

<210> 29416

<211> 214

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-E10

<400> 29416

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agcggtcaca tgcattgcatt gaggcgatca ctgtcttgct aactatgata tatttgcacg 120
gaagcatcac cacatatatg atgccactct acgttagtgc tctcgctatg gctaaaagga 180
tgttgcacta ctgtacatag tgcaatctct taca 214

<210> 29417

<211> 161

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-E11

<400> 29417

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tgcggcgacc attatggact gtggatcgat ggatgctgtt actcctgtca ggatttgctc 120
taagttaatc ctaaggaaaa aatgggtgctt cttgggtgctg c 161

<210> 29418

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-E12

<400> 29418

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gatccatcca ggcttggagt cctaactgat cgggacctcg gattgcggaa cactgccggt 120
 ggtgagcgtg gccggccaac tctacgagct gttcgtggca atggcaagct cgatctggac 180
 actccacagg ttagcatggg catactaccc cgcagtcggc atattccagg tcggccggtg 240
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 gagcaaggag ccccggaa 318

<210> 29419
 <211> 131
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-E3

<400> 29419

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 gcgactatcg tccagagact aatatacggc gtctacttct gcaccatcgg tctgtatgat 120
 ctgtgatctt a 131

<210> 29420
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-E4

<400> 29420

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 ctctctgttt gtggcgctgt atctccttct ggacgtgctc ttctgctact cctgctctgt 180
 ctgttttctt tcttttggtt gttttttttt ttgttgcctt ttattttctt tatatttatt 240
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 tttttttttt tttttttttt ttattttttt acttttttta attttagttt tattttttct 360
 tttttttatt tctttttttt ttgtttttct ttttttttct tttttttttt ttttttttat 420
 tttt 424

<210> 29421
 <211> 272
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-004-Q1-K1-E5

 <400> 29421

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 tggaccagga gggcctctag actatagctc gatcagccgg acacgattat acgtacatgc 180
 gtgatgtgtc tcacgtgcct agcacgttag tcatgtgttg gatgatggca gcccaatttg 240
 ccaataatat tcgtgcctcg atcctagttt ca 272

<210> 29422
 <211> 52
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-004-Q1-K1-E8

 <400> 29422

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<210> 29423
 <211> 169
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-004-Q1-K1-F1

 <400> 29423

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 tcgtggttgc gtgataattg ccaggcaggc aggtcgtgca ggagggcaag aagaccgaag 120
 accgatccgt gcgggggctc gggactggaa ctgtacatga ccccaaat 169

<210> 29424
 <211> 90
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-004-Q1-K1-F10

<400> 29424

gcgcacgcgt acgccacgcg ttccaagaag gcacttcacg tgacatttaa aaagcctagt 60
gggagtgtta gcttatctgg gcacggggtt 90

<210> 29425

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-F12

<400> 29425

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tggtgagtaa cttcttccga tccagattat ggcttcaaag cagcagcaga aacagttcct 120
ggatgaagcc atgatcaagc agccgacacc ggaggaggac cgtgagggcg catggccctc 180
agtgcgtgacg atcatcggtt ttggattcct aaccttcaac tcattcatgg ctgtgtacag 240
gtcaaattga gatgttggat ctatcttctt tgtgggtctt tcttacctgg tccttgttct 300
gctgttctac 310

<210> 29426

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-F2

<400> 29426

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ctctgcgccg ccttctctct cgcctactag catgctcgcc ttctcatctc catccagcga 180
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ttcttttttt ttttttatct tttt 444

<210> 29427
 <211> 324
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-004-Q1-K1-F3

 <400> 29427

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 gcaaagagcg gctcagccgc accggtgcgg tgccagcgga tcggctgcga cgccgtattc 120
 accgacgatg acaaccgcga gggctcctgc caataccacc ctttcgcacc tatgtttcat 180
 gactgcatga aagaatggag ctgctgcaag caaagaagcc atgatttcag cttatttttg 240
 cagatacctg gatgcacaac atgaaagcat acaaccgaaa aaccaatcac aaaagctgta 300
 tcattctaacc gtacaaaaggc aaca 324

 <210> 29428
 <211> 88
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-004-Q1-K1-F4

 <400> 29428

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 gaataataat aaaaaaaaga ggaataaa 88

 <210> 29429
 <211> 354
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-004-Q1-K1-F5

 <400> 29429

 atcaagggga agggaatgat tcagggtatc tctgcagttg gtgcattttt tgagctgctt 60
 agtcaaccca gcttaagtgt gcagcaccca gaagaaaaca agcaggttgc tccagctgag 120
 ctatgcccaa tcctgaagag gctttacaga atactgataa aaaggagct cccagcaagg 180

<210> 29432
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-D9

<400> 29432

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gctcctgtca tgggtcctga tatcacatgc caacagttgc tccctgtcgt cattgcttct 120
tcaaaggaca gggttccgaa catgaaattc aatgtcgcta aagtccctgca atcacttgta 180
ccaatccttg atcaatctgt tgtggagaag acagtgaaac catgcttagt tgagctcagt 240
gaggaccag atgtagatgt aagatactac gcacaccaag cccttcgggc gtgtgaccaa 300
atggtgatat ctagttgact agcctgtcca ggaattaaca aatgagatac atattggtct 360
attctttttg aacattttta agtgttatgt agtcttaaaa ataatgtacc accaatgacg 420
ttgatgcac ttttt 435

<210> 29433
<211> 260
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-F8

<400> 29433

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ctgggctcgg cggggatccg cccctgcagc atgcccttcg gcgccgacct gttcgacccc 180
aacacggagt ctggcatgcg cggcatcaac agcttcttca actggtacta ctttaccttc 240
acggccgtca tgattgatct 260

<210> 29434
<211> 167
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-F9

<400> 29434
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 tacccatgca ggaaccatca tggactgtgg atcgatggat gctgttactc ctgtcaggat 120
 ttgttctaag ttaatcctaa ggaaaaaatg gtgcttcttg gtgctgc 167

<210> 29435
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-G1

<400> 29435
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 atttctctct tgcagtctgt actcttctgt accatggctc tccgtaagtt gtgaaagcat 120
 gagcacctat ttccaccttt gatggccaag aatctcattg tagctctgct gtaccatgta 180
 taagctgtta ttaactagt gaaagcagca cgaaaaaat tctgaaggga gtgtgaatct 240
 tgggtgggtca tctgtgtacc tgtgttctct ataaatgctc tcgattaagc atgttgatct 300
 ttaaaatatt tttgattttc atatatttta tttaattctt tttttatctt tatctagttt 360
 ctttatgtta gtatattgtt tttttttttt ttttttttat attttactct ttt 413

<210> 29436
 <211> 448
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-G10

<400> 29436
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 aatcatcagg ctgggcgcat gacatgttta ccggactctc tccacaaaca ggatccacaa 120
 gtgctggctc cacacaagca accatactac aaagacattc aaatgctcag ggtaccttgg 180
 gctcatggag gtctgaatgt atcatccaaa agattgatga tacttgctca tggcttcgaa 240
 ggctactaag aaggcctgaa attgatgaca ctgaagcatg ccttaacatg gagctaattg 300
 agtcaacagc cacagaaaaa tatgttttgc cttctcttc aaaaccttct tcaagttcag 360

tagtggagga catcaatddd gtaacatcct tcacacttcc ataaacagta atattatcct 420
tatttggtga gaactgcttt gcactggt 448

<210> 29437
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-G11

<400> 29437

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tcgaggaaaa gtatatcaag cgactaacga catttgtaga aaaacagtgc tataagctac 120
aagacttgct agctcggatt gcagatggcg gatcagaagt actgagaact gacgacttta 180
cgtgctcata atctgggtctt atactgagcg ctcatggatc ttggtagctg tgtggctgct 240
tgacgaccca ttgtgctcga cgacgccatc gtatttcacg tggcgaacat gtgc 294

<210> 29438
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-B5

<400> 29438

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catatgtatt gtagtggtag tctgttttct gacgacgctt tggttttgaa ttgtttcatt 180
tttgtaattd tttattdttt ttactagatt ggttggtggt atttggtatt ttttdttttd 240
ttttatattd ttttdttttd attatattdt tcttdttttdt tggattattd tatttdttttd 300
tttdttattd ttattdatct tatattdttt tatttdgttd attatctatt ttd 353

<210> 29439
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-B6

<400> 29439

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gtgaatgtcg tagcgtttagc aatttttttt taaaaaaaag ttccattgaa tgactaattc 120

ttctcctggt gcatgctaca gtaatgccct ggagaaacga tcaaaagata tcgcaaacag 180

gatgttactt gaagaggggtg tactgcgggc ttccacacgt gtccgggctc atccaaagga 240

catggcattc ctcaagtacg tcaacaagtg gaaggataac tgatg 285

<210> 29440

<211> 52

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-B7

<400> 29440

aaaaaaaaaa aaatatcaaa aaaaatttaa aaaaaaaaaa ataacaaca aa 52

<210> 29441

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-B9

<400> 29441

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cctggtgcga gagaagtgga tccagatcga gaccgccaag atcatccggg agcgctctcg 180

ctggtgctac cgcacgcagg gcatcaacca ccaccagaag tgccgccacc tcgtcgacca 240

atacctagag gctacccgcg gcgtggggtt gggcaaggat gcccgccgcg ctgaactcca 300

cgagcccaag aagaccgtca aggcggagta gcggcgctgc tgccttgctt ctggtgctgc 360

tgttcctgga ttggagaggt gatctgacct ttccattgag ttgaatgaag tagcctggaa 420

ct 422

<210> 29442

<211> 304

<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3067-004-Q1-K1-C12
 <400> 29445
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 tggtaggtct tctgtcgttt gctgatcgtg agaactttta atac 104

<210> 29446
 <211> 357
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-C2
 <400> 29446
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 cctgaggaga tgaatttggc cacggagcat tgtcgatcag ctgatcttgt tctatgtcta 120
 ggaactagat tactcctgca tgtaatatgc ctctgatgtc aatcaagaag ggggggacat 180
 aggaataat gttctggaga tgaagaaacg cttgcgttgg cttatctttt tttctttttt 240
 attttttttt ttattttatt ttttattttt tttatttttt cttttttttt atttttttat 300
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<210> 29447
 <211> 162
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-C4
 <400> 29447
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 atcgtgcggt ggctacgaca gatgaaaaat ataaaagcga cctgtggacg tccagcgcgt 120
 tagctacaag aatgaataa tcatgcgccca caggttatga ta 162

<210> 29448
 <211> 448
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-C5

<400> 29448

cccacgcgtc cgcccacgcg tccggtcctt ggcagaaacg ctggctgggt cccttggtgc 60
atcaggatct tctggaaacg tggcatacta tatgggtcaa atggctatgg ccatgggaaa 120
acttgtcaca ctcgagaatt tccttcgcca ggctgacaat ctacgacagc agaccttaca 180
tcagatgcat cttatcctga ctatccgaca agctgctcgt gcgctttttg caatccatga 240
ctacttttca cgttttgtct ctctgagatc ttattggttt gctagtgttt ctttagttac 300
attattttta ttattgttct atttattttt ttttattttt tatttttttt tcttgtttta 360
ttatttttat tatttttttt ttttattatt ttttttttta ttttttcta ttttttatat 420
aatattctta ttattttatt tttttttt 448

<210> 29449

<211> 53

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-C7

<400> 29449

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<210> 29450

<211> 84

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-C8

<400> 29450

gcgagcatca gatcgtcacc gtcgactgtc agccatcggg tcctcagggg ggcacgtctg 60

tcctcgtctc cggttccata cgca 84

<210> 29451

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-C9

<400> 29451
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 gaatgttaag aatgttgctg tgaaggatct gaagcgtggg tatgtggcct ccaacttcaa 120
 ggatgaccct gccaaaggagg ctgctagctt cacgtcccag gtcacatca tgaaccaccc 180
 tgggcagatt ggcaacggct atgccccagt gctggactgc cacacctcgc acattgctgt 240
 caagtttgcg gagctcatta ccaagattga taggctgtct ggcaaagagc ttgataagga 300
 gcccaaattc ctcaagaatg gtgatgctgg tatgggtgaag atgggtccca ctaagcccat 360
 ggtagtggaa accttttctg aatatccttc tcttggtcgc tttgctgt 408

<210> 29452
 <211> 173
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-004-Q1-K1-D1

<400> 29452
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 caccggctag aggaggacgt ggtgggaggg gaggcaggtt cgatggcggc ggccgtgggg 120
 gcggctgctg ctgccgtggg tttggcggtg gtagaggctg tagaggggac agg 173

<210> 29453
 <211> 202
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-004-Q1-K1-D10

<400> 29453
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 aggccgggat atttttggat gtcggggcc taaagtgctc gagagcatag ctcttaattt 120
 ccttagtctt acgacattat atcatttatg ctttctaate ttcttacttg ttaaaacact 180
 tttaatcaag aaacttatca tc 202

<210> 29454
 <211> 337
 <212> DNA

<213> Zea mays
 <223> Clone ID: LIB3067-004-Q1-K1-D11
 <400> 29454

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 tcaaaggaca gggttcccaa catgaaattc aatgtcgcta aagtcctgca atcacttgta 180
 ccaatccttg atcaatctgc tgtggagaag acagtgcac catgcttagt tgagctcagt 240
 gaggaccac atgtagatgt tagatactac gcacaccaag ccctttgggc gtgtgaccca 300
 atggggatat ctaattgact agcctgtcca agaatta 337

<210> 29455
 <211> 456
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-B4

<400> 29455

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 catcgtgggg ttccgcgacc tctgcctgca tgctgactac gctgggttcg tatectttat 120
 tgcctttctt gattgttttc tatTTTTTTT ctatTTTTat ttgttttctt cttttgtttt 180
 ttttttattt ttttattttt tttttttatt tttttctttt tttttttttt ttttttttat 240
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 tttattctat ttttattttt ttctattctt ttgtttcttt tttttatttt ttttattatt 360
 ttttattttt ttttattttt ttatttattt tttttttttt tattatttat tttttatatt 420
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<210> 29456
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-D12

<400> 29456

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 cttcaagaac gtgcaaaggc ataaatatga tgcgatttgt tcttgcgatg tatgatatat 120
 ttgccggaag catcaccaca tatatgttgg ggctttgggt agtctcctcg ttttttttca 180
 aaggagggtg cataggggtac atagtgtcat cttttctatt tcgttcctag atttgtcaag 240
 agatggcaat tatttgttgg agaaagctcg ttgccacatt ctagtcattc ttttcttagt 300
 ggtttctactg ctcatctagt ttctgtaatt ctttaaattg aaggccaatt gagcaaagta 360
 ttaatttggg gattgaatta tgttactact gtcctatcta tc 402

<210> 29457
 <211> 263
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-D3

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 tgctgcgcgc gggagctagg cagctccttg ccccggggct cggcgggctc ggtctgggca 120
 ccggcgccgc cggtcagggt ggccccggcg ccgcgggcgc tgtgatgagg gcgtaccacg 180
 agcgggtggt ggaccactac aacaaccgc ggaacgtctg ttccttcgac aaggaggacc 240
 ccaacgtcgg tactgggctg gtc 263

<210> 29458
 <211> 245
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-D5

<400> 29458
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 gagattcagg tgccccgagg tcctcttcca gccatccatg attggtatgg aggctgctgg 180
 aatccatgag acaacatata attcaatcat gaattgtgat gtggatatca ggatggacct 240
 ttact 245

<210> 29459
 <211> 111
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-004-Q1-K1-D6

 <400> 29459

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<210> 29460
 <211> 304
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-004-Q1-K1-D7

 <400> 29460

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 atatatttat ttatatTTTT tttatttatt ttttaattatt ttttttttat ttttttttat 180
 tttttttttt tttttttatt ttatttttat taatttttta tttttttttt tttttttatt 240
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 tttt 304

<210> 29461
 <211> 323
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-004-Q1-K1-D8

 <400> 29461

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 ctcgtcatat tgtggagcat tgtaatgctc atggccacaa gatagacaca cttcttgctt 180
 gtgggggact tgcaaagaat tctctgtata tccaagagca tgcagatatt acaggatgtc 240

ctataataact tcctagagag agcgagtcag tgcttttggg tgccgctgtt cttggcgctt 300
 gtgctggcaa gaagtttccg ggt 323

<210> 29462
 <211> 446
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-H11

<400> 29462

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 gtacgacatc aagcggtcg ggaacaacgt caacgtgtcc acgggggtga actggatgct 120
 gctgggcagc cccgtcagca aggacttccc gctcgccatc taccctcgctg acaaggtgcc 180
 gctcccctac gagctgttcg ggcccaagcc gccacgcgc gcgcccgcgc cggcaccgc 240
 gcccgggcgc gccaaaggcca agaccaagaa gaagaagaag tccgccgcca tcgccgagcc 300
 gccacggcc gacgacgacg acaccggcaa gggcggcaag gggctgggca agggcggcgc 360
 gaaacgccac cgtaaggttc tccgcgacaa catccagggt atcacgaagc cggcaatccg 420
 gaggctggcg aggaggggcg gcgtga 446

<210> 29463
 <211> 340
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-003-Q1-K1-H12

<400> 29463

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 gctgtgctgc gtacagtacg tagtaccatg gcgaagaaag tggccactct gctggccctc 120
 aacctctct tcttcgcctt cgccgacgca tgccgctgca ggtgcggcgc atcctgccct 180
 agtccaggcg gcggtggcgg tggcggtgga ggatctggtg gtggtggtgg tggaagcggg 240
 gggggtggga gtgngggggg tggatcgggt ggtgggagtg gtggcggagg atctggtgga 300
 ggcgntggt gcggtggagg cggtggatct ggtggtggtg 340

<210> 29464
 <211> 53
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-003-Q1-K1-H4

 <400> 29464

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 <210> 29465
 <211> 77
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-003-Q1-K1-H5

 <400> 29465

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 tgagcgatgc catgagc 77

 <210> 29466
 <211> 97
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-003-Q1-K1-H8

 <400> 29466

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 ctgttatcct gcgataacaa tacctagggg tagcagt 97

 <210> 29467
 <211> 445
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-003-Q1-K1-H9

 <400> 29467

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 gagcgccggc tcatcggatg atgaacatgg ctcgaggag gacaataacc ttagctcaga 120
 tgaagatgga gaagaggaag aggaggagga agagaaaggt gatggaaaca actggaaggg 180

ctctgtggat ccaaactctc tggaagctga agaaaagaac gggagctcgg agagtctgat 240
ggcgctgcga agagcaaaga acgctctact gttcgatctc gacaggaggc taatggacct 300
gcaggcagct gatgcagtct cgaaaatgga ggcggcgctca cgcttccgcg tccaggtgct 360
cttcatctac acaccgaggc ggctgtccc ttcagacgat ccagcacagg gggacacagt 420
ggagctgccg cagatccctg gctcg 445

<210> 29468
<211> 259
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-A1

<400> 29468
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ggagtcaata tccagcaacg ggtaccgatg tacgctagac gcaatcgtgc tataataaccg 120
agacctacgg ctccagtgcc cttagtgtatt gacagtctcg cacatgtagt cacctatctt 180
gagccatctt aggtgtctac caaatttgaa gccctgcttg gatggtgtgt cttcaattat 240
tgtatttata atttttctt 259

<210> 29469
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-A10

<400> 29469
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gaaaggcaat tgaaagtggc gataccgatc ttgtgtacct tgtgctattc catatttggc 120
agaaggtagc tgttgagaag aaagctcctt tggatttttt tgggtgtata aatgcaaggc 180
ctgtggctag agatttgttt atggcatatg caagacattc taagcatgaa gaattgaagg 240
acttcttttt atcgactggg agacttcaag atgccgcctt tcttttgttg aaggaatcat 300
gggaattgga gaagaacccc atggcaagca aggggtctcc tctccatggt ccacaagtga 360
ggctcattga gcaagcccat atactttttg ctgaaaccaa agaacatggt tt 412

<210> 29470
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-A11

<400> 29470

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 acagaaatct tataagcaag cagcaggatc tttttctgaa tggaggggca agcttactag 180
 gaactttggt ttgccattg atttgataag cttgttgatg tcacttggtc attactcgat 240
 gatatttttg cttcgtggta tggcgtttca tctggttgat gcagttctct tattgaactc 300
 gcgtgctctt atagtttctt ttttgaagag gattaaagct cacatcaagt tacggaaggc 360
 acttagttca ctcgatggag cacttccaga tgctacgtat gatgaaattt gtgcatatga 420
 tgatgagtgt gccatctgc 439

<210> 29471
 <211> 78
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-A2

<400> 29471

cccacgcgtc cgaaataaaa aaaaaatata aaaaaaaaaa taaaaaaaaa aaaaaaaag 60
 ggaaaaataa aagaaaaa 78

<210> 29472
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-A4

<400> 29472

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 cccgccgcgt ccggccgcgg caaccgcacc tgtgtcaatc tccatgacta cctcaaggcg 120

tcttgctgat aggaagatat cacgatttga gaagaatata acaaagaggg gcgctgttcc 180
 tgagacagcc aagaaggcaa acgattatcc tggtgggcct attcttcttg gggtctttgt 240
 ctctgtggtt gttggatcat ctctctttca gatcatcaag acagcatcaa acgctggtct 300
 attctgagga gaatcggttg acacatgcaa tctgtcacta gaaactattc aagtgtaggg 360
 cgtggctcaa tgtcgcctat ttaatgttgt accgtggtga gttttaggta tatatttaat 420
 ggaagtgctt at 432

<210> 29473
 <211> 80
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-A6

<400> 29473
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 gaaaataaaa ataaaggggg 80

<210> 29474
 <211> 344
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-A7

<400> 29474
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 gaaggcgtag ccgggctgcg acgccatccc ctgcgaccag ttcgaggtgg cgttccaggc 120
 cgtggagctg tggatcgagg accgcgccgt gctccccgtg gagaactcgc tgggcggcag 180
 catccaccgc aactacgacc tgctgctccg gcaccggctc cacatcgtct gtgaggtgca 240
 gcttccccgtg caccactgcc tgctggcgct gcccggtgtg cgcaaggagt gcctgacccg 300
 cgtgatcagc caccgcagg cgcttgcgca gtgcgagcac acgc 344

<210> 29475
 <211> 446
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-H10

<400> 29475

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cagccaggag ctccaggtcca tctggataga cctcctcgcc aagtgcgacg cgtcgctggg 180
gatgaagatt gccacccggc tcaacatgaa gccaaacatg tgatgcttct gctgaataat 240
aatgaagaca cgcattgatg tcgtcgtcag gaacaagaga aataatacaa gaccagcacg 300
catgggcata ctctatatta tagatggcca aaaagcacga ggcccgtgag cccggcacga 360
agcccgtttt ttgggcccgg tccgagcacg gcacggtaga ataagcgggc gggcttgaac 420
aggaaactag gcacggcggg ctagcc 446

<210> 29476

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-A9

<400> 29476

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gaaaagatgt gcctgtctca ctcccdaacc aacttgtgaa ttgtcatgca tcgactctag 120
ctagagcatc tccgagagca aaaacccttg ttacagtttt ccaactcaca ttctactata 180
tattaggatg tgttgggcac acatggaagt aaggcaaaat gatgcatcga catgtgatac 240
gtgagcacgt atttcaaaac ccgatagggt gggtggagtg ggcttcttaa aattattact 300
ccgaagcgtg caattgagat tgtagtatta taataccac gtatttgtaa atctggatc 360
gtcgatgctt taaacaccca tctatatata gtcactcac tgctgctgtt actggcattt 420
cttcctaata cccgttctg aaa 443

<210> 29477

<211> 280

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-B1

<400> 29477

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ctatggcggc ctcgacattc atgacagaca caggacatg cgccttgaca ttgacaatat 120

gtcctatgag gaactattag cacttgagga aaggatcgga aatgttagca ctggcctcag 180

cgaggaagct gtgataaagt tgctcaaaca aaggaaattt tcatcgtgga gactaaaagc 240

atcttttgac ccagaaccat gctgtatttg ccaggaagag 280

<210> 29478

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-B11

<400> 29478

cccacgcgtc cgccccacgg tccgcccacg cgtccgcacc ctcaagggtc acgtggagtc 60

ggtggtcaag ctcaagggcc tggacatcga caccatccag cagaactaca cgggtgtgaga 120

gccccctctgc tgcgatgtcg acgacaacac ctttgctgcc cgacggggagc catctgatta 180

cagataaaaa ttttcctagc tgtaaagctc tataccacca gatactgcca tatgatggta 240

tggttgggta cccgtctttc tagggagttt cttttctctc tctctttttt cttattgtta 300

tgtttttcaa tagtggagtg tgcgcgtggt gtaatcgttt ttacctgctt ttttctctaa 360

ctagccggtg acctcgcggg aagcgaggtg aagaaataat gcaactaaaa ttctctgcc 419

<210> 29479

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-B12

<400> 29479

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ggtaattcca cactacaagg gtagaagcaa agaaacaaat gatgaggctg agggtaaaca 120

atacaatgat aaggatgttg atattggaaa gccagtcttg acatcacgca catcatgtca 180

ggatgttcca ttgctcttac ctcaagagct tgaacctcgt gaattatcca gttcagattt 240

aagggtgaat gatttagata ttaaccattc agatcgttta aacaagaaga actttaatca 300
gcctttgctc aaccgaaagg caaaactgga ttcttctcat taggatttac ctattataat 360
gtttgtagac aatttta 377

<210> 29480
<211> 241
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-B3

<400> 29480

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ttggtttatc aagacctgct atctggcgac gagctcctgt cggattcatt cacctacaag 120
gagctcgaga acggcgtcct gtgggaggtc gagggaaagt gggtcaccca aggtcctgtt 180
gatgtagaca ttggtgcaa ttcacccgcc gtgggttgtg aggatgaaag cgcttatgac 240
a 241

<210> 29481
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-D10

<400> 29481

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agggatacta aaataaaggg tgggtgctttc aacgattgca atcttactat accattactt 120
gccttgagtt aactgtgcta tagggttata acaactgcaa ctaattaaac cttgttttac 180
accaacttaa ttgcctagtc ccatattacc acttaattaa aactgtttta tacctataat 240
gctttctcgc aattgccctt ccaaacatta ggactggctt aatcgccaat gagaatcact 300
acgcacccat aatgtatatt ctgacgcacc tttaatcact cccttaataa cctcttgatt 360
tgacgatact ctata 375

<210> 29482
<211> 446

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-003-Q1-K1-D12
 <400> 29482
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 gttctgctgc gccagatata ccgggaacttc aggaagcctt tgattgtgat gtccccaag 120
 aacctccttc gccacaagga ctgcaagtcg aacctatctg aatttgatga tcttgcgggc 180
 caccctggat ttgacaagca ggggacacgc ttcaagcgtc tcattaagga ccagaataat 240
 cacaaggacc tagaggaggg aatcaaccgc ctagttcttt gctctggaaa ggtgtactat 300
 gaactggatg aagaaagaag gaagtcggag cgcactgatg ttgctatttg tagagttgag 360
 cagctctgcc cgttccccta tgacctcacc cagcgcgagt tgaagagata tccaaatgcc 420
 gagatcgtgt ggtgccaaga ggagcc 446

<210> 29483
 <211> 444
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-003-Q1-K1-D9
 <400> 29483
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 taagactctg attgcaaagc gaatgttcaa caatgctcat ataaggctca cgctcacccg 120
 tgggaaaaag gtgacatctg gaatgagtc agctttcaat ctttatgggt gtgccttgat 180
 tgtgcttgca gagtggaac caccagttta tgataactct catgggataa aattgggttac 240
 tgccaccaca cgctgaaatt ctccaaatag tatagattcc aagattcatc acaacaatct 300
 tatcaacaat attctggcaa agatagaagg taatcttgcc caggctgagg atgccattat 360
 gctagataag gatggctttg tatcagaaac aaacgcaaca aatattttta tgggtcaaaaa 420
 gggaattgta ttgacacctc atgc 444

<210> 29484
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-E10

<400> 29484

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 ggggttcgggtt tcgtgggtga gcggatcgag atggcggcgt cggatgttga gtaccgctgc 120
 ttctgcggcg gcctcgctg ggccacggac gaccactccc tccacaacgc cttcagcacc 180
 tacggcgagg tcctcgagtc caagattatc ctcgatcggg agacgcagag gtcccgcggc 240
 ttctggcttcg tcaccttctc cacggaggag gcgatgcgga acgccatcga gggcatgaac 300
 ggcaaggagc tggacggccg caacatcacc gtcaacgagg cccagtcccg cggcggccgt 360
 ggaggcggcg gcggcggcta cgggtggtggc cgtggaggcg gcggctacgg cggtggcggg 420
 cgccgtgatg gcggcggcgg c 441

<210> 29485

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-E11

<400> 29485

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 tgattgatat ttttatagtg gtaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa caaaaattac aaacaaaaaa 180
 aaacaaaaaa ataacaaaaa atattaaggc accaaaatta aattaaacaa gcccgaattt 240
 taaaaaaatc caaacttgta aaaaccttaa tatacccaac ttaaaagcct ttaacaaaaa 300
 cccccctttt ccaactgggg ttattaccaa aaagccctta ccaaatcacc tttccaacaa 360
 ttgcacatcc ttaattgcta attgcacccc ccc 393

<210> 29486

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-E12

<400> 29486

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 gaaaaaaaa aaaaaaagaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaa aaaaaaaat aaaaaaaaaa aaaaaaaatg ttggcttcat aacttcttta 180
 ttttttaatg caaggatatt actatttaaa tagttttctt taaattaatt taaattatca 240
 atttgtttaa aaagcttttt aaatggtaaa acctt 275

<210> 29487
 <211> 97
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-E5

<400> 29487

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 tgaccttcct ggtggctttc ttcactctat ccagctt 97

<210> 29488
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-F10

<400> 29488

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 gtggcccctc ctacggcggc ggcgctggag cagctaagca gcagcaagat gttcgacggc 120
 ttcaatctcc gcttccgcca ccagagcgcc acccttggct gcgccatgac tttctccatc 180
 tacctgcccc cgtccccggc gtccaacctt cccgtgctgt actggctctc gggctctacc 240
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 atcgccctcg tggcacctga cacctcccca cgtgggttaa atattgaagg agagtcagac 360
 agctatgatt ttggtgtggg tgccgggttt tatttgaatg ccacaaatga aaagtggaaa 420
 aactggcgca tgtatgacta catt 444

<210> 29489
 <211> 446

<210> 29494
 <211> 407
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-003-Q1-K1-G11

 <400> 29494

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 cctgctcgcg cggcgctggg cggcgggcgc gggccgctgc tgggcgggtg gaacccgatc 180
 cctgacgtga gcgactcgca catccaggag ctaggcgggt gggcgctggg gcaggcgaag 240
 caccagaagc tggccgccga cgggctgcgg ttccgccgcg tggcgcgcg cgagcagcag 300
 gtcgtgtccg ggatgaacta ccgcctctac gtcgacgccg ccgacccgcg cggccgcacc 360
 gtgccctacg tcgccgtcgt gtacgagcag gtctggacct gcacccg 407

<210> 29495
 <211> 341
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-003-Q1-K1-C9

 <400> 29495

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 ctcaagtggag gttcgactat gttcccggga atcgctgac gtatgagcaa ggagatcact 180
 tcccttgac caagcagcat gaagatcaag gtcgttgac cgctgagag gaagtatagt 240
 gtctggatag gagggccat cctagcctcg ctgagcactt tccaacagat gtggatatct 300
 aaggaggagt acgatgagtc tggcccgga attggtcaca g 341

<210> 29496
 <211> 322
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-003-Q1-K1-G12

<400> 29496

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tgcaggacgc tctactaaca cgccatcagc cacacgtaca tcatgcctga cctaccagca 120

gatgcatgca tacacaacac atgaaccgtg tacattgaac acaccgtacg attatgcctc 180

ccgatcgagt gctagcacta actatcagac catcacttgc ccatatttct gagcaggact 240

aacatgtacc cgtcaagctt agctttcttt gtccaccatg tacgttcaca agcatgagta 300

gtcattcagg ttcataatga at 322

<210> 29497

<211> 235

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-G5

<400> 29497

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ggctattggt ggacaggaga ttggtccaga gaaagccagc gtcaacttgt caggctggag 120

cacatgtttg atgggaggca tctaccatac ggtctcacca acacaggaca acagatacct 180

tagaacttgt cgaggcaaga agtcttgga aggttgaata ggatcgctgg actgg 235

<210> 29498

<211> 258

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-G9

<400> 29498

cggacgcgtg ggcggacgcg tgggaggacg cgtgggaggga cgcgtgggag gacgcgtggg 60

aaaaaaaaaa aaaaaagaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaagg ggatgccttt ttagaggatc aaatttaact tacgcgggta 180

tgaaatgtta tatctattat atagggtcac caaaataaaa taaactggcc ggagtttaaa 240

aagatgaaga ttgaaaaa 258

<210> 29499

<211> 223
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-002-Q1-K1-H2

 <400> 29499

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 agcatggaca cccaagtga gcttgctgtt gtggtaaagg tgatgggcag gacctgctcc 120
 aggggtcatg tgaccaggt cagagtgaat ttcttgatg accagaaccg tctcatcatg 180
 aggaacgtta agggccctgt tcgtcagggt gacatactga ccc 223

<210> 29500
 <211> 436
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-002-Q1-K1-H4

 <400> 29500

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 tgcgtcctc gccacatgct gttacaggct gtctgacctg tgccacgggt tgagggcctt 180
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 ttccactcct ccagaggtcc cagtacaccc ccggcttgtg gcatcgtctg tcgccgcggc 360
 cctgcacctg agccctgcct acatcccgag tcacacacct atcctttgaa gaattaatgg 420
 cgactggaag cagggtt 436

<210> 29501
 <211> 58
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-002-Q1-K1-H6

 <400> 29501

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<210> 29502
 <211> 258
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-002-Q1-K1-H7

 <400> 29502

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 tcaaataaca tttgtttgtg ttgcgaattg ggaagagagt ttttagttag acgagctttt 120
 gatggcccta aagatgtttt cccggatgat gtttgtgctg ctggaccgtt tcctgttagc 180
 ttcatggca tcctcccat atcgataaac tgttgcttag cctgacaatc ggaagagttt 240
 aaatgttaaa gatttgat 258

<210> 29503
 <211> 402
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-002-Q1-K1-H8

 <400> 29503

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 attaatacag caacatctgt ttcctcgcag gtatgggtga ccagacacta gaacagctcc 120
 catagacagc tgaatctttg atttacatca aacagtgttt acttatatat ggtcatatgg 180
 agtcggggca cgaatacata ttttcttctt gtatgttcta tcttctgcgt tccagcaaga 240
 tgtgttgttt aactacaata cagagggacg gtggccggct tgtagaggaa aggcttgacg 300
 gtgtgcggat tcccagacgg atttgttgta agtgaacttc accccagagt gagcatcacc 360
 ccgccgtgtg caatgtagat ggaagctgct cataggcctt gg 402

<210> 29504
 <211> 436
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-002-Q1-K1-H9

 <400> 29504

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tgagcgcccc atccttggac gcttctctc ccacctcaag atcgggatcg ttgggttgcc 180
aaatgttggc aaatcaactt ttttcaacat agtaacaaag ttggctatcc cagctgagaa 240
ttttcctttc tgtaccatcg aaccaaata agcacgggtg aatgttccag atgaacgggt 300
tgattggctc tgcaaaactt acaagccaaa gagtgaggtg cctgcatatc ttgaagtaac 360
tgacatagct gggcttatta gaggtgctca tgctggggat ggtctgggca atgcattcct 420
ctcacatata cgtgct 436

<210> 29505
<211> 442
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-003-Q1-K1-A10
<400> 29505

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accaagcttc caaggctgac ttggctgtgc tacactgcgt tcactgctcg ctcccatcgc 120
ccaaggatat caactcagca aggtgggttga atcacattga tgcgctctat aggctgcacg 180
gaattactgc aaagggccaa ggtgtgtagg ttgaatcaca tgcagctcct tcagacccat 240
ctccatatct tgctgaacct cacgccttaa ttgctcacga ggacgacgac gatgacgttg 300
acctttgtga tgaggagacc gaatatgaga agaacgctgc tgaagagcgt gctagaactg 360
ccaaggctct tggcaagaag aaagaatctg ggaagtcac agtcttactt gatgcgaagc 420
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<210> 29506
<211> 308
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3067-003-Q1-K1-A11
<400> 29506

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gctgcaacac aaatgcctgg ggaggctgct ggttgggtcc agggcacagc agacgccgtt 120
 agaaaattta tctgggtact tgaggattat tacaagcata aagctataga acacattttg 180
 attttgtcag gagatcaact ctatcgtatg gattacatgg agcttgtgca gaaacatgtc 240
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<210> 29507
 <211> 97
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-A6

<400> 29507

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<210> 29508
 <211> 222
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-B11

<400> 29508

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 gcaggacgac tggcgcgggg actcgcgagg cagcgccagc gaggagtcgc cgctgtcgcc 120
 gtcgcagatc ccgccgcgga gggacagggg gaccagcgcc tggtaataag ccaagcccg 180
 tctaggtgac tgttgttggg cgatccgatc aggcggcgag gc 222

<210> 29509
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-B12

<400> 29509

gtgctggtgc ggcgagtgc ccagctgggc gggcgtgtgg acctgcgac acctcctcac 60

caagtgcgcc gtcacctgca agaactgcgt ccccggtgcc acggacaagg gggccatcaa 120
gtacagggtgc cgcgacttcc tccccgaaaa ctgcgggtgc aagatccact agagactcat 180
ccaattccac catggccgcg cgccacagcg gcacagccga tggatccttc catgttcctc 240
cgtcgcgtccg ccttgctaca agcaggcagc cacaccaata agctagctct tgttggtgtt 300
ttgtatgttt gattgggtgt cccttcccag tcgagatgga ataaaataaa tcatcaggcg 360
ccaataagca aaaaaaaaaac aaataaata aa 392

<210> 29510
<211> 59
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-B5

<400> 29510

caaacgggcg acttggtacc aagacaggat gagccatcca ccctgcattg ccagagacg 59

<210> 29511
<211> 167
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-B9

<400> 29511

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tgacggcgat cctggagaaa ggcgggcagt tcaccatgtt catgcggctg atgaaagaga 120
cgcagcaaga cacgcagctg aacagccagc tgaacagctc gtacgcc 167

<210> 29512
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-C10

<400> 29512

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taatacaata cagcacagac acagcaccct caggccggcc tcagaagagg aggaaaaaga 120

ttaacaaaaa agattgaggg gtagcataaa aaaaagaagt aaaataacaac cactactctt 180
gttcatcatc atcatctcct acagtatcat cgtgtgcatg gacccaggaa gcagagctgc 240
agcgttcttc cctcctccgt tccaggcacg aacgaacgcc cggatcccgg agccagaggg 300
ctcggtcaca ttatatactc gtcgtactca catcgcgta ggtgccttat tcgattccct 360
accgttcacg agctacgtac ggtgtgcgga tcagtcgaac aagctggcga tgctgtctat 420
gtcgacgagg atgagga 437

<210> 29513
<211> 443
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-003-Q1-K1-C11
<400> 29513

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tgagcgagga cctagtgaag gtcaatgaca atgaagcaac gtttgatata ctatcatggt 120
ggaaagggca agtcacaaat tttcctattc tttctaccct tgctcgtgat gtgttgtcta 180
tgcaagtgtc tactgttgct tcagagtctg catttagttc ggggtggacgc attgttgatg 240
cattccgttc aagactcaaa ccagaaatta ttgaggcatt gggtttgttgt aaagattgga 300
agattgcttc ggagaaagat ttggagattg aaattaaaac cttaagtga gctatgaatg 360
acgttgactt ggaggatgct gctgcaatta gaacttgaga agttaaagtt caagttacca 420
tggatgatgt tgaacttggt act 443

<210> 29514
<211> 444
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-003-Q1-K1-C12
<400> 29514

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aggggaggac ggggggcaga tggcggcgtg ccggggcttc ttcgagtgcc tgctcaggct 120
gctcaacttc atcctcaccg tcgccggcct cgctatgggt gggttacggga tctacctgct 180

<210> 29517
<211> 227
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-C6

<400> 29517

cagtaggcgc atatatttgg cagcaggagc tgcctctcac ttgcttcgac gtattttctct 60
atctatcgat actgttcaag ggaccgaata aggtagagag agaaacttgt ttgtgatagg 120
aaggagatac atgttcatgt tcatttaggt gtcagttcat ctgatgtctc agaagcaaaa 180
ttgtgttttg agctcagtga caccattttg taatgcatgt tcctttt 227

<210> 29518
<211> 273
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-C7

<400> 29518

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aatgtcttgg tgcattgttaa tggatggtat ttctcaccgt gaccactctg cttagccggt 120
aagaactgag ccaactgataa ggactgaaac tgctcacgtg ctttgttgtt agcagagtgc 180
tcatgattca aggaagataa ttttccattt tttctgtttg gtcaacgaaa cacacagaat 240
gtgtactatt gtacactgca tgctgttatt tgc 273

<210> 29519
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-F3

<400> 29519

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tctttcaaca ctgcggggcga tcatccggtg cttcacctgc cctgacagat acttcgagaa 120
agtcattcga ctggctcttg gaggcattggg cactgatgag gatgacctca ccagggtcgt 180

aactactcgc gccgaggtcg acctgaagct gataaaggag gcttatcaga agagaaacag 240
 tgtgccgctg gagcgtgctg tggccaaaga tacaactaga gattatgagg atattatgct 300
 tgccctcctt ggggcggagt gaggaggcgt gcctcaactc gatctcatct gctcctactt 360
 gtttgatggg gccaaaaaac tgcacgcacg tggatatccac atggccgtgg ttttg 415

<210> 29520
 <211> 216
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-F4

<400> 29520

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 tctttaaaca ctgtgggcga tcatacgatg cttcacgtgc cctgacagat acttacagaa 120
 agtcatgcga ctggctcttg gaggcattga caccgatcag gatgacctca ccagggtcgt 180
 atctactcgc gcctagggag gcctgcagct gttaaa 216

<210> 29521
 <211> 235
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-F5

<400> 29521

gtaccggtcc tgccttctcg acccaagcgt tccttgacgc atcagctctc atgcaatcac 60
 taggatctga aagctgaccc cacagatgag ggtgtttcaa cactgtgggc gatcatccgg 120
 tacttcacct tgctgacag atacttccag aaagtcattc gactggctct tgaatgcatg 180
 ggcaactgatg aggatgacct caccagtgtc gtaactactc gcgccgaggt ccacc 235

<210> 29522
 <211> 275
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-F9

<400> 29522

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acactggggc gcacaactac ggtctagtag acaatcaaca aactaatctc aaaacatact 120
caccaaaaact tactatatct aacataaaaa cacttactca aaacactcct tacatcctct 180
acaacattat atttccacat ctctaataca caaagtcacg taatctcttt caacgatcaa 240
tccaaatgtc acaatgctat gctgaatcaa tatat 275

<210> 29523
<211> 195
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-G1

<400> 29523

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aggggtttct tgaaggggac cgtatacact atctatcaga agatgataaa gctaagttgt 120
gtcatggggtc tacagataag ataactgcaa ttactatga cttgggtctc gaagatgtca 180
ctgtgacaag gaaaa 195

<210> 29524
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-G10

<400> 29524

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cactataagg ggaggcgtat ttattgagga atgatgtcta tatatgcaac tagactatac 120
ccatttaatt ctgggaatga ctgctaattg tgtcaactaa tactgaatgg aactttgata 180
tgcagagtta aaaggacact gtttcactat cgtcgcacaa actatatata tgtagcctaa 240
atctaacttg aggactagaa tcagaactga tggccctgtc tgcataacaa ggatgtccaa 300
tgagacacta ctggtttcac gcatggaata cttctcggaa gtcatgaccg ttacaagcc 360
aaggcttctt acatcactga agctataggc aatatattga tctgatg 407

<210> 29525
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-G11

<400> 29525

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ggctgctggt tgtgcagctg tgctaaagcc atctgaattg gcttctgtga cttgcttaga 120
gcttgctgat atctgtaaag aagtcggtct tcctcccggt gtcttaaaca ttgtgacagg 180
attagtcct gatgctggtg ctctttgtc agcacacca gatgttgaca aggtcgcttt 240
tactgggagt tttgaaactg gtaagaagat tatggcggct gcagctccta tggtaagcc 300
tgttacactg gaacttggtg gaaaaagtcc tatagtagta tttgatgatg ttgacattga 360
caaagctgtt gagtggactc tgtttgggtg cttttggacc aatggtcaga tttgcagcgc 420

<210> 29526
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-G12

<400> 29526

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tcgtactgga tcaaggacgg caaggtcttg ggcgccttcc tggagggcgg gtcaccggac 120
gagaacaagg ccattgcaa ggtggcgaaa acccagccgc cggtcgctaa cctcgaggag 180
ctcaagaagg atggcctcca gttcgccagc aagatctgag acgctccgt tccatgtaaa 240
attccgtgtc atcgtgaagg ttcttctgga gctctggtca tgattgagaa atgttctgct 300
acagatgtta tactacatac gtgactacac tacatgatat attcggtttt ctgattgtga 360
tatctgtacg tggctacact cacatgtgag atttgaataa gtcctgcagc ctcagggtc 420
agctagc 427

<210> 29527
<211> 419
<212> DNA
<213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-002-Q1-K1-G2

<400> 29527

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 ccggccatga gcgctacacg gtccaccttc caaccaatgt gagtgagatc aagcctggcc 120
 aagatgttac cgtgacaact gataatggaa agtcgttcac ttgcacactc agattcgaca 180
 ctgaggtgga gcttgcttac tacgatcatg gtggcattct accatatgtc gctagaaaga 240
 tagcggagca atagattgta ccggttgagat ggttgcgata cttgcggtga atcgtaattg 300
 gtgtaaacgg tttgggttagt agtacaaccc atttttgcgg actacttata ataacctctg 360
 agtatctcag agtgagctgt ctgaaatttg atgaactgct acaattctgg tgcgccatg 419

<210> 29528
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-G4

<400> 29528

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 gctgttcctc ttcggaccac ctacaaagct cttggtgtag cttgccactc tcaccaatca 120
 agttttcatg tctgatctcg acattcaaatt cccaactgcc ttcgatccct tcgctgaggc 180
 caatgctggg gactctggtg cagcagcagg gtcaaaggac tacgttcacg tgcgcatcca 240
 gcagcgtaat ggtcgcaaga gctgaccac cgtccatgga ttgaagaagg agttcagcta 300
 cagcaagatc ctcaaagatc tcaagaaaga gttctgctgc aatggtacag tgggtccagga 360
 cccagaactt ggacaggtca ttcagctcca gggatgatcag aggaagaacg tctcgaa 417

<210> 29529
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-G5

<400> 29529

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 cttttgcgag attatggaca aatagataaa aggttacagc agttggcatt cattgtgaag 120
 cattgggcta aaactcgacg tgtaaataaa acttatcaag gaacactttc tagttatgcc 180
 tatgtgatta tgtgcattca cctcctacag ctgcgaagaa tactcccatg tctacaggaa 240
 atggaggcca cttattatgt caaggtggaa gaaattaact gcgcttactt tgaccaagtg 300
 gacaagctaa ataattatgg tgctcacaac agagatacag tatcaaggct gctctggtcc 360
 tttttccatt actgggcata tgagcacgat tacacatgag atgtcatatc aattcgtact 420
 ggg 423

<210> 29530
 <211> 242
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-G6

<400> 29530

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 acataaacac tgcgcggtat caacttgaaa ccaatgttaa atatgatcaa gcctgtccaa 120
 tatgttacct tctcatctga taatcaaacg ttgtttctctt gcacactaat tttaaact 180
 ccagttgaac ttccttactt ctatcatttt aactttttac catatatacc tattttgata 240
 cc 242

<210> 29531
 <211> 325
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-G8

<400> 29531

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 tgtacgaggg cctggactgg ctgtccagca acattgagag caaggcttga atatcaaag 120
 cgaactgact aggagctccg gatgtatcat ggaaacttag gacagaatcg cctcttcaac 180
 ctgttaggtg tcttctaccg gcacaatata ttttttgttt ggaatatgta atgatgttac 240

ggttcaacgt ttattctacc ctactatact gttggatggt ctttgggcct gggtcatttt 300
gcacaaggat tggaggtcca atatc 325

<210> 29532
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-G9

<400> 29532

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ctttgatgtg caatctgact tccattagca tctagataag atccaatgtt tcccgттаат 120
ggctaccaat tgatttaact tatacggttg gtgactttgg tatgcagatt aagaagttca 180
gggatgcact tgcaaagcac aaagcagata aatgtagcct tggcccaact tggggactag 240
aatcagaact gttggccctg gctgcaaaca aggatgtcca aggagacact actggtttca 300
agcatggaag acttcgcgga ggtcaggacc gctgacaagc caaggcttct gacatcactg 360
aagctatagg caatataggg atctgatgac atgcgagaga tgaaatgtg 409

<210> 29533
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-H1

<400> 29533

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agagcatgga cacccaagtg aagcttgctg ttgtggtaaa ggtgatgggc aggaccggct 120
ccaggggtca ggtgaccag gtcagagtga agttcttgga tgaccagaac cgtctcatca 180
tgaggaacgt caagggccct gttcgtgagg gtgacatcct gaccctgctc gagtctgaga 240
gggaggccag gaggctgcgc tgaagccctt gttgtcttgg atgtaattct gttaattttg 300
ttcaatgttt gtcgaacttg ccgtgtgacc catactatat ctgctttggg atttagtaag 360
cctggattgc agtttttttt atgttcctgg tggaaattgc aattgtttgt cggc 414

<210> 29534

<211> 388
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-002-Q1-K1-F2

 <400> 29534

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 aatgttttta tgggcaggga agaaatttcc ctcatctcca ggacgggaac aatgtccgca 120
 ggtcgaggaa tgctggcttc gaccttttct tttctttttc tttctttttt gtttcgacat 180
 gtagatgcaa acttcgagag gcaagcatgt gtggtctttg tgagattacg gcgatattct 240
 atatcgtcaa ccataaccga agtcctattg ataatttaag gatttttggg aggcctcagg 300
 cttaaaaacc aatgtcagtg aatgtagtat gacttctatc caatgtaatg atcaatgtgt 360
 tggtagaggca caatctttat tcccttgc 388

<210> 29535
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-002-Q1-K1-D6

 <400> 29535

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 ctctctctcg cggctgccgc cgcggtagcc gccgccgtcg acgcggagga cccgctgac 120
 cggcagggtg ttcccgggtg agatgacaac gatctggagc tgaacgcgga gtcccacttc 180
 ctgagcttcg tgcagcgggt cggaagtcc tacaaggacg ccgacgagca cgcgtaccgg 240
 ctatccgttt tcaaggccaa cctgcaccgc gcgcgccggc accagctgct ggacccgtcg 300
 gcggagcacg gcataactaa gttctacgac ctacgcggc cagagttccg acggacctac 360
 ctcggcctgc gcatgtcccg gcgcgctctc ctgagaagac ttcgggagtc tgcgcacgag 420
 gcg 423

<210> 29536
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-D7

<400> 29536

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tgcgatacca aaggctatat caaatgctgg attagagtca tcccatgttg atttttttga 180
gattaatgaa gcattttctg ctgtcgact tgcaaatcaa aagcttcttg ggattccttc 240
agaaaagatt aatgtccatg gaggagctgt gtctctaggg catactcttg ggtgcagcgg 300
tgctcgcat tttgtcacc ttcttggtgt ccttagggaa aaggcgcgca agatcggtgt 360
tgctggtgtc tgcaacggcg gacgtggagc atcagctctt gttctcgaa tcgcataaga 420

<210> 29537

<211> 238

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-D8

<400> 29537

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tatcatatga tgggcaaata caatttaagc tccgaaactt tctactacca cccatcact 120
tgcgatacca aatgctatat caaatgctgg actagactca tccaatgttc atattgttga 180
gattaatcta gccttttctg ctgccgtact agcaaatcaa aagttacttg tgattgct 238

<210> 29538

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-D9

<400> 29538

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ggcgacgctc cggtccggc gggggatccg caggaccgcc accgtacca acccccggcg 120
gcgaagcagc ggacgacgct ggtgttcacg tacgggacgc tgaagcgcg cttctccaac 180
caccgcctcc tggaggagct cttcgcgagc ggggacgcgt cgctggtggg ccccgcggtg 240

acgtcggcgc ggctgccgct ggtgtgcggg ccgtaccggg tgccgttcct gctgaacctc 300
 cccggcgccg gcgcccgggc gcaccgcgtg cgcggggagg cgtacgcggt gacgggcccgc 360
 gggcttgccg ggctggacga gc 382

<210> 29539
 <211> 366
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-E1

<400> 29539

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 gggctcttctt cagctcccaa gtgacaaagc cctgctgagc gacctgtct tccgccctct 120
 tgtggagaaa tatgctgcag atgagaaggc attctttgat gactacaaag aggcccacct 180
 caagctctcc gaactggggt atgctgatgc ttaaatgtcc atatcctgga gcgggacaca 240
 aactgctgcc tgtatggact cgtgccaatc aagggtgaacc atcagattgt ctagaggctt 300
 ctttgaata aatttatctg gtcttgggac tttggctatg ggtgaatcgg aaccatttt 360
 ccgttt 366

<210> 29540
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-E10

<400> 29540

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 gtgtcttgag aatgagtagg gtaggagctc caggagcagt tcttcccctt ctacagaat 120
 cgccctccct gaggcaacca tcttaacaac aaaagaggct cgtacaatca cagctgcaac 180
 tgctaaacca cttgtgcatg caaagtatca aaaaggaggc cagacacagg ttgatgaaac 240
 atctaaaaag gcaataagga tgtcaaactc gcagctttgc caacatgagt agtctatatt 300
 cgcttccccg caccctccac ttccttgctg tcgtgctgat tccagatcaa ggggtagtga 360
 tccggaaggt ggctatgggt tttgtaagta cgaggcttaa gatcttggtc aaggaagggt 420

gctatggtac ttttgatcct ctg

443

<210> 29541
<211> 119
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-E11

<400> 29541

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gtactccatt ttgaaagtgt ccaagtgaga ctttatacat atatgcagtt gagagatgg 119

<210> 29542
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-E12

<400> 29542

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cgaggatgtc ttgcagctgc ggatcaagct gcggctgcgg ctcaagctgc aagtgcggca 120

agaagtaccc tgacctggag gagacgagca ccgccgcgca gccaccgtc gtcctcgggg 180

tggccccgga gaagaaggcc gcgcccaggt tcgtcgaggc cgcggcggag tccggcgagg 240

ccgcccacgg ctgcagctgc ggtagcggct gcaagtgcga cccctgcaac tgctgatcac 300

atcgatcgac gaccatggat atgattatta tctatctagc ttgtggtggt ggttgaacaa 360

taataagcga ggccgagctg gctgccatac ataggta 397

<210> 29543
<211> 240
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-E2

<400> 29543

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ctttgtggat cgatggaggt tgcctctggt cattcggatc ccatgtttta ccttgatgac 180
gaacattgta aaaagcattt tgttttatgg actggaatag tctgcataca tcaccatagc 240

<210> 29544
<211> 69
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-E3

<400> 29544

aaaaaacaaa caaaaaaaca aaaaaatttt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

ggaggggaat 69

<210> 29545
<211> 288
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-E4

<400> 29545

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gggcgtgaca cctccaagaa ggacgagggc aggctccggg cgggcggcgc cgccggaaag 120

cgcaagaagg ccgccgcgag cggaagccc aagcgcccgc cctccgcctt cttcgtcttc 180

atgtctgaat tcaggcagga gtatcaggcg ctgcacgctg gcaacaagag cgttgcgacc 240

gtgagcaggg cagcagggga aaagtggcgt gctatgtcat atcaagag 288

<210> 29546
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-E5

<400> 29546

cacaaaaaca aacacaaaaa aatttattca taaaaaaca aaaaaaatga caacaagggg 60

ggtcttatac agctgccaaag tgacaaagcc ctgctgagcg accctgtctt ccgccctctt 120

gtggagaaat atgctgcaga tgagaaggca ttctttgatg actacaaaga ggcccacctc 180

aagctctccg aactggggta tgctgatgct taaatgtcca tctcctagag cgggacacaa 240
 actgctgcct gtattgactc gtgcgattca aggtgaacca tcagatggtc tagagattgc 300
 tttgtaataa atttaaacta tcttggtact ttgtc 335

<210> 29547
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-E6

<400> 29547

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 tttcatgtct gatctcgaca ttcagatccc aactgccttc gatcccttcg ctgaggccaa 180
 tgctggggac tctggtgcag cagcatggtc aaaggactac gttcacgtgc gcattcagca 240
 gcgtaatggt cgcaagagcc tgaccaccgt ccagggtattg aagaaggagt tcatctacag 300
 caagatcctc atagatctca agaaagagtt ctgctgcaat ggtacagtgg tccaggaccc 360
 ataacttggc caggtcattc agctccaggg tgatcagagg aagaacg 407

<210> 29548
 <211> 236
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-E8

<400> 29548

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 ttccggcatg gcttccaagc agatcggagt cttgacctgc ttcattgcca tcaccgtctt 120
 cgccttccgt ccctgcgcat ccgccgtgcc catggacggt ggctggtcga acggcggcgc 180
 cacctggtac ggcccagcca agggcgctga atccgacaac ggtgcgttgc ggttcc 236

<210> 29549
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-F1

<400> 29549

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ttgacacctc ggctgaaggc ggggagggaa atagctgctt gaaagggggg gtttacttag 120
ccgatggtga tgaaactggt ccagttctta gtgcgggcta catgtgtgca aaaggatggc 180
gtggcaaaac tcgtttcaac cctgccggca gcaagactta cgtgagagaa tacagccact 240
caccaccctc tactctcctg gaaggcaagg gcaccagag cgggtgcacat gttgatataa 300
tggggaactt tgctctaatt gaagacgtca tcagaatagc tgctggagca accggtgagg 360
aaattggtgg cgatcagggt tattcagata tattcaaag gtcagagaaa atcaaattgg 420
a 421

<210> 29550

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-F10

<400> 29550

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agcgcgagaa cgcgctcacg gtcacgagg gcaacccgct gcggcgccac ctggccctgg 120
gctacgacga ctcccactcc caccgacagc gcgcgtcgtc agctggctct gaccgcgtgg 180
acggcataga gtcgcccgcg gcggcgccgg cgccggcggt cgttaagaag cagggtgagg 240
tcgcggtggc tccgcccagg agccccggtg tggacgagac cgtgttgagg gagctgcacg 300
agctgtgcga ggcgcgcgag gccggcacgg cgttcactct gggccactcg cacgtgaaga 360
ccaagcccgg gtcgtcgata ctcaag 386

<210> 29551

<211> 270

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-D5

<400> 29551

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gttcttctgc tctggcctac tatctacgag agacaccccg ttcggatcca ctacttgctg 120
atcttcttgg tcggacgttg caattccacc atgctgattc tggctcgtca acatatcgtg 180
ctgacctttg atcctattgg tcgtgectca gacctgatgg ttctttttct tcagaatacg 240
aatgagcgtc ttctggcttt gtgatgaaac 270

<210> 29552
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-F11

<400> 29552

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aaaagatgta aaaaccaaga gctaaaatga atactatttc cagttctagg cggcattata 120
aattctatct ttttcttata atgatgtgaa tcttgatggg ttaatattat ggttttagga 180
caattattat ggtttcatac tatttccagt tcttttagtca tggatttttt ttcagaagtt 240
gatgaactct accttcgcag gatctagttc cttgtatctt actgtctttt gagtttgagc 300
atatactgat gtggagagga agtgattgga aatcatctct tcctccatta gaaaatagtt 360
atgaagtgc aaaggtgcaa gaaagtttta gtggcaaaga atctaataa aaggttacac 420
attcaggaaa tggtttgatc c 441

<210> 29553
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-F12

<400> 29553

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ggttggtgac tctgtgggaa acttgtcact caaagagctg aagcagctgg agagccgcct 120
tgagaaaggc atctctaaga tcagggccag gaagagtgc ctgctggctg ccgagatcaa 180
ttacatggcc aaaagggaga ctgagcttca gaatgaccac atgaacctca ggaccaagat 240

tgaggagggga gagcaacagc tgcagcaggt gactgtggcc cagtctgtcg cagcagcagc 300
 tgccaccgac gtggagctga atccgttctt ggagatggat accaaatgct tcttccttgg 360
 cgcccccttc gcgacactgg acatgaagtg cttcttcccc ggcagcttgc agatgctgga 420
 ggcacagcag cgccagatgc t 441

<210> 29554
 <211> 320
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-002-Q1-K1-C11
 <400> 29554

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 tggcggcgtc ggacgttgag taccgttgcg tcgttggcgg cctcgcttgg gccaccgacg 120
 accactccct caacaacgcc ttcagcacct acggcgaggt cctcgagtcg aagatcatcc 180
 tggatcgggg gacgcagagg tcccgcgggt tcggcttcgt caccttctcc acggaggacg 240
 cgatgcgcag tgccatcgag ggcataaagc gcaaggagct ctacggccgc tacatcacccg 300
 ttaacgaggg ccagttccgc 320

<210> 29555
 <211> 433
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-002-Q1-K1-C12
 <400> 29555

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 ccgacccgtc caagcccatc tacgtctgcg tccggggcaa ggtctacgac gtcacctccg 120
 gccgcggctt ctacggcccc ggcgggcgct acgcccgtct cgcgggccgc gaggccagcc 180
 gcgccctcgg caagatgtcc aaggacgagg ccgacgtctt cggggacctc tccgggctca 240
 ccgacaagga gctcggcgtc ctgcgcgact gggagatcaa gttccaggcc aagtaccccg 300
 tcgtcgcccc actcgcgcgc gacgcctgaa ctgcgtcagtc tcggtctaaa tttactctgt 360
 cctgcctctt gcgggtgttca gtgctgtgct tgcttgcttg atgctagttg ctttgcctacc 420

caataatctg aat

433

<210> 29556
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-C2

<400> 29556

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tgcgggtgtgc aggcgtagta cgtaccacagc agcagctagc actagcagtc catcggagcg 120
accatggtga gaaggacggt gctggctgcg ctggttgtgg ccgccgacct agccgtcggc 180
gcgcggtgcgc agctcacgga ggggttctac gactactggt gccacacagg ctgaggatat 240
cgtcaaggac tacgtgaagg cgcaca 266

<210> 29557
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-C3

<400> 29557

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atcttcgaga agctgaaatg gctcctaaag ctgctcctgc caagaagggt gatgccaaga 120
cccaggcctt gaaggttgcc aaggctgtga agtctggggc agccaagaag aagaccaaga 180
agatccgcac gtctgtgaca tttcacccgcc ccacgacct gaagaaggct agggacccca 240
agtaccacg aatcagcact accggaagga acaagcttga tcagtaccaa attctcaggt 300
accccttac cacagaatca gcgatgaaa acattgaaga tgacaacact ctggtcttca 360
ttgttgacct taaggcagac aagaagaaga tc 392

<210> 29558
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-C4

<400> 29558

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aagagctggg aatcttggtg ggaagtggag caggatcatc taaaatattc aggaacaata 120

ggacgctttg ttgagataat cttggctata cgttttttca tataccagta tggccttggt 180

taccacttac atgtcacaca taacaaaagc atctcggat atttaatttc ttggctcgta 240

attgtggcgg ttctgctcgt tatgaagact gtgtcggtag gaaggcggac attcagtgc 300

gatttccagc tattcttgcg tctgatcaag tttttgatat ttgatgcttt cattgctatt 360

gtgattgtct tgatagtatt acttcatatg acctttcgcg atatatatgt gtgcttttcta 420

gcat 424

<210> 29559

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-C5

<400> 29559

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gtcggcggcc gtgtacgagg tgggcggcac cattgggtgg accgtcatgg gcaaccccg 180

ctacgccggc tgggccagct ccaagcagat cgtcgtcggc gacactgttg tgttcacgta 240

taacaagcag tgccacaacg tgctggcggg gagcaaggcg gactgcaaga actgcatcgc 300

caccaagccg acggccacct ggtccacggg gaacgattcc gtcgtcctga acaccacggg 360

ccaccactac ttctctgcg gctacccggg cactgcgct 400

<210> 29560

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-002-Q1-K1-C6

<400> 29560

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agaatataca tattcagaaa ggacttatgt gtcagatatg caagtgaaaa gtgtttcttc 120
 ttcagacatt cgaatcagtg tttccagtg ccttagcaca tccagccatg gctctatgaa 180
 caagagccat caagcttcta gttctggctg ttcgctctcc ttttttctg ctcaatatgc 240
 ataaatgtga tctgatttgt gtagcttgct cgtcttgcta agatggaggt tgagtatcga 300
 tgtatccaga tcatagagat tgggtcttcca atgggtaaac atattangat gagagacacc 360
 ccgggggtct aaaatctaata gttgagtcg cattgcaagt tctgaatttt gcaatataag 420
 ttgactgata tg 432

<210> 29561
 <211> 227
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-C8

<400> 29561

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 ggtgcgagct gattgaccac aatctgctc atgtgatcca caaggaccgc gttgcgctcc 180
 tgtgacatgg aactcataac gctttcggag ctatatatac aatgtat 227

<210> 29562
 <211> 360
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-C9

<400> 29562

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 ctttttagttt ttttcccccc tcacccttg agattgggga ggctcttct gcttctagca 180
 tgcttgcttg ctgcttcttg aattgctga ctgttattgg ttggttcttg cttccattat 240
 tttgcccttt ttttttttct tttttcttc ttgcttcag cttgttggtg atgcagtttt 300
 tttttcaaga gacaagatta gtataatgtc aagtgtgaat gaagagctct atttattatt 360

<210> 29563
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-D1

<400> 29563

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gtttcaacaa tgaaacttga agatcaccag cacagcttct ttctttcaga aacgtgcaaa 180
tatctatttc ttctgtatga tgattcattc ttgaggaatc aaaattacct ttttacaacc 240
aaaggtcatt ccctttcaat aagaaacacg tggcatgaag aattttctgg aacatatgtt 300
cccaggcatt ggacatcttg taagggttag gttcaaccca tttgcgccag cgcattattg 360
tcttaagggt tgccccgagac cattttc 387

<210> 29564
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-D10

<400> 29564

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gaggaacaga ttcagaagat gcctaaacca tttccaattt taaagataaa tccttcgaaa 120
aaggatatag attctttcat ggcgtcagac ttcaagctgg ttggctatga tcctcaccag 180
aagctagaga tgaaaatggc agtgtaacgg tggcttagct ctggagcccc cagccttgga 240
acctcgggtg gtgaaatcag tcgaacgaac tgggtactaca taaaaaatga accggacatc 300
gcactagctt gtttttggtg atggtgctga atgttgctgc ggaggcggtt tcccccgta 360
ttagtagcga tctgcgtgct atatatgggc gctgaagtca aaattgtctc tcttttattt 420
ttatctacta ctactactca 440

<210> 29565
<211> 440

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-002-Q1-K1-D11

 <400> 29565

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 gacagaggat tctaacagtg atgaaagcgg ttcgttcttg ttagatgata attcgagcat 180
 cccgttctcc gtggatgata tcaccaactc aatgcatgag aaggacttca cggatatcaa 240
 accggctgat gagctactcg agaaccctgc cttccagttt ttacaggatt agcgctagt 300
 aagtcctcga gcattttatg ctgctagata tcttgtcaga tcattttattg atttggtgta 360
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 agcttttgta aaaattcata 440

<210> 29566
 <211> 206
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-002-Q1-K1-D12

 <400> 29566

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 aaaaaaaaaa aaaatataaa aaataaaaaa aaaaaaaaaa attaattaca aaataataat 120
 ttttttattt tatattctaa attaatttct atattcaaaa ttattcaaatt ttatttttat 180
 taaaatctta tcaattacct aattta 206

<210> 29567
 <211> 276
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-002-Q1-K1-D3

 <400> 29567

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ttctttttatt tgtacatggc ctgggttgtg ctgcttgcca ggtcctaaga tgctcatagc 180
 tttgtgttgt gactgtccat atgtgtatat cgatTTTTTT catcaatttg ttacgtatgg 240
 gcatatcctg gtatgttgtc aattgtattg gcattc 276

<210> 29568
 <211> 418
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-002-Q1-K1-D4
 <400> 29568

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 gagtgaggaa gctgcagtac atctcggagc ttgaacggag cgtcaccagt ctccagatgg 180
 aggtgtcggc gctgtccctt cgcgtggcct tctcgcacca ccaccgctca ctgctcaccg 240
 tcggcaacag ccatctcaag caaagaatcg cggcgctcgc ccaggacaag atcttcaaag 300
 acgctcacca agaggcgctg gagaaggaga tccagcggct gcgccaagtg taccagcagc 360
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<210> 29569
 <211> 439
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-002-Q1-K1-C10
 <400> 29569

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 tgcccctgct ccctcgggtc ctctccggtt gggcgtttgg ccgccggggg tgggtgggccc 180
 agaccgagat gatatcgtgg aacgatgtat acacggtgct gaccgcgatg gtgcccctgt 240
 acgtggccat gttcctggcg tacgggtcgg tgcggtggtg gcgcatcttc acggcggacc 300
 agtgcctccg catcaaccgc ttcgtggcca tcttcgccgt gccgctgctg tccttccact 360

tcattctccac caacgacccg tacgccatga acctncgggt cctggccgcg gacacgctgc 420
agaagctggg cgttctcgc 439

<210> 29570
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-A4

<400> 29570

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cctttgagga atctgtttca accggtgaga ttgacagaaa gatccagtcc ccgctagaca 180
aggttgagaa gttcaagagc atcagaagcg acgtggacag tacggtgcca ttcctgtctg 240
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tcgttgggtc aagcacaagc ttgcgtagag tgggcagaca gttcgggtgtt tcctttgtcc 360
cgttgtttct cggcttagtg gagaagcaga ggcaactgac ggatgaagat gcgtccgcgt 420
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<210> 29571
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-A5

<400> 29571

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gatggccatg agtttgagga atatgaggag ccaccgtac ttggaaggaa gacttatttt 120
gtagcagata aatcaggttc gaaccatcaa tgggcccaat gtgaagattg ttccaaatgg 180
aggaaacttc caatagatgc tctgttgccc tccaaatgga cctgctctga caacaaatgg 240
gatccagaga ggtgttcttg cgaatctgca caggaaataa gtatagagga gcttcagaaa 300
ttcattccta taaaacctgc caaaaagccc aaattgaaga tagaatctga tgctatcgat 360
gcttcagatg ggctggacac gcttgc 386

<210> 29572
 <211> 452
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-A6

<400> 29572

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 tttcttatat cctctagaac ccccgatagt agatgagttt gactgggaaa tggacgatta 180
 cgaggatttt gctgatcaga aagttcaaga aggtggcctg ccagaggatg agaaagaaaa 240
 attcaaggag ttcctgaagg agaaggtttag agaaaggaag agagagctta aacaggctaa 300
 agaagccagg aggaaagcta ttgatgatat ggatcctaag gtgaaagagg cattcgagaa 360
 catcaaattt tacaaatttt atcctgtgaa aaccccagac acgcctgatg tagacaatgt 420
 aaaggctagg tacatcaacc gatactacag ga 452

<210> 29573
 <211> 376
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-A8

<400> 29573

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 ttcgacgacg acttcgagcc aaatcccagc gagttccagt ctctcgacaa cagcggctgg 120
 tcttctcgca ccaggggtgt cgcgagatat ctcaagactc tgttcgacga ggactccggt 180
 ctggggagga agagcgtcgc catcgaccat gtggtgctcg ggaagacgcg gaaggaagcg 240
 tggaggatgt tctgcgagac cttggtgctg acgacgaatg actacatcag cgtggaccaa 300
 ccgaaccctt tcgacttcgt gagcgtgaag ccaggcccgg agctggtcat gtcagaattc 360
 tagatcagca gagtca 376

<210> 29574
 <211> 399
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-A9

<400> 29574

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tacacgtcgg ctctgtcttc tccccggac gggcggaat tttccccctc acgttctctt 180

cccgtcgcaa aggtcttgtc catggcgccg gctagtttcc ggtgggattt ctcgaggcg 240

gtctcggagc tgggatcgag gggaccactc gggtcgaagg tgcctactcg cgataatcgg 300

ccaagcgtg tgtgccctcc tcgaagctca gtgccgagaa aatgaatcgc agcctggatc 360

tggcatcctc gtcgtcttcg attcaatcga cgcttctag 399

<210> 29575

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-B1

<400> 29575

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ccccgcaccg taaccctagc agcagatcgg ccatggagag ctgggcgacc tgtgtgggga 120

caagcgtcac ctccggcttc ttcgcctgcc tcgagcgtg ctctctgcac aacctctcca 180

ccgacgacga cgacgacgac gaggaccacg acgaggccaa aggccggggc cttattcttg 240

gcggccgccc aagccactac ttcggcggca agcccgatcc agacttcggc ggccaggacc 300

aggacgacca gaagcaagag caggcggcgc tgccggccgt atgaatcgga ccgattcct 360

tgcttggact agctgctact gctggtatgt cgccaaataa agtcgtgtgt gcgtgtg 417

<210> 29576

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-B11

<400> 29576

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 ttctgtgctgg tgggtctcttt gcaattcatt ttcctctcca tcttctctgg cttegggtgc 120
 ttcttctctg gcaagcacag gggccgggag gagatgcgaa cggcgctcgg cgcgaggtc 180
 tacggcacgc cgctgccgcc gcccgcgctc gtcggagtct catcgccgcc gcctgagccg 240
 attcacgcca agaaacaagg gcccgagcc gtctgattga gatccattcg tttctaccta 300
 ctactgccta tgttttggtg atgttgatt tattctttct tctttatttt cgtccagacc 360
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 acgacttacg aggggagggg gtgat 445

<210> 29577
 <211> 341
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-B12

<400> 29577

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 aatataataa ataaaaaatt aaaacaaaaa aacattctac ataattatta aattataatg 120
 taaattaatt aaaattcact agttgacggg atacgacttc atgccttgta ctaactcacg 180
 tataccgtaa cttcactaaa ttgaaccata tgacaataaa acgactggcc tagcttagcc 240
 taattgatgg acctaaataa tgtaccaa atgtgatatg catattgatt cttctcatcc 300
 tacttgtctc tacatattaa gcactatagt attgcatttt a 341

<210> 29578
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-B2

<400> 29578

cccacgcgtc cgcaattgga gacgtggaat tgaaacagaa caaattcctg cctcccgaga 60
 agcaaattgt gacggccaat cctgatatca acgtcgtgga gctctgcgat gatgacgact 120
 ttgttgttgt agcatgtgat ggcatttggg actgcatgtc aagccaacag ctggtggatt 180

ttatccacga gcgtataaac acggagagca gcctgtctgc cgtgtgagag agagtgtgg 240
acagatgcct ggctccatca acgatcgctg gagacggatg cgacatcatg accatgatcc 300
tggtgcagtt caaaaaacct gtcgatcgga acaagaagge cgaagcagca gggcaatctg 360
ccagcaatgt ggacgaagcc aagagtcgtg ttgctgagga gtgaagcatg gctggcac 418

<210> 29579
<211> 252
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-B3

<400> 29579

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tcatatctct ttcattttgg taaaaatgca tatatcttat tattctcgta ccatgactac 120
ggctaatatg tttccaagta tatttctata ctaagtcgta gattgaaagg gaaatggagt 180
cttcggcgaa gacaaggctt ccaactcaact ctatgggtgt tatctaccct ttggcattac 240
ttcgtaatct at 252

<210> 29580
<211> 224
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-B4

<400> 29580

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tgcgcaccca cttaggtgga ggcaagtcca ctggcttaag cctcatctac gataaccttg 120
agtctgcaa gacgttcgag cccaaatacc gccttatcag gaatggtctt gctactaagg 180
tagcaaagtc ctggatgcac atgaaagagc ggatgaacag ggcc 224

<210> 29581
<211> 261
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-B5

<400> 29581

gcacgcgcga ggtgtgctgc aactgcagcg tctgcatgga ggagtacttc tgcgcagcct 60

gcaacttctt ggacgatgac gttgacaagg agcagattac attgcgacga ttgactgctc 120

tgcaggtgcg tgcgtgctg tgtctgtacc tctttttttg tttcttgggt tctttacttc 180

ctttcattga ggccactgag ttacaggacc tgaggcgccg gccacaaatc gcgatttttag 240

taggaacccc cccgtgggat t 261

<210> 29582

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-B6

<400> 29582

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gtgtgtgatc atgtctggca tcatctgcaa gtgcaactgc ggctacagct gctgctgcag 120

cagctcatgc aactgcatgt gcaatgacgt ggagaccgac gtcgacagca gcatcaagac 180

catggtcctc actgtgccga ccactaaggc cagcaccagc ggcttcgacg cgggcaccga 240

gggcggcagc tgcgactgca acagctactg ctgcagctcc agctgctggct gctgctgctg 300

cagctgcagc tgaaccggcc cgtcaggcct ggcgatcggg cacgagagtc gagaggacaa 360

cgacgacgac gcgtataact atgcttaata gcacgtctta tatcaga 407

<210> 29583

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-B7

<400> 29583

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ggcgtgttca ggtttaggcc cgtcgggaatc aaatgcacaa ctgcaggtat agccagataa 120

gataatcggg ggagctcaat gcaagctcgg gattggacga ttgtagacat cactaacaac 180

atcagaggag cgagcttgcg gtcaaaaaca cagatgggca acaacaacaa tgaacacgaa 240

acgaaacaaa cggacacgag acgaccacag acgaagataa accccctcta gactaggggtg 300
aacacggtag cagaagcgaa caagataact aggctcagc ggaccccacc gtcagttcc 360
tccagttccc gtcgttggtg ccgtagccgc cgacgcgggtt tccaccaccg tatcccg 418

<210> 29584
<211> 63
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-B8

<400> 29584

cccacgcgta cggtcacaaa aaaaaaaaaa acaaaaaaaaa aaaaaaaaag tcagccgggg 60
tta 63

<210> 29585
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-C1

<400> 29585

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aggccagga gttaaaaaa gctgctgaag ccctacacca agaagaaaga agtgggaaca 120
agggccgaaa atggcgcaaa aatgtgaagg ctttagaaaa ggagttatta ctctggaag 180
atgacatgaa ggctctagaa gagatgtatc ctcaaggaga acaggctgag gctacttggg 240
cattcacagt tcttgggtac atcgggaaac ttctatttgg tgttgctggg ttaataggtt 300
caatagcttg gttgcacat attgtcatat acttggtgat agatcctcct gtatctcatg 360
tcctgaatga agtcttcata aaattggatg gtgtttgggg tctgcttggg actgc 415

<210> 29586
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-A3

<400> 29586

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gtaagatcga cgaggaagaa agcaggcacc ggtggccaag gatgcaacgc aacatggagc 120
gtgtgatgtt tacaccaata taattgaata aacaggggat gtgcgcgtcg ttgtacttat 180
gctgatgctg aggtcgtggt cgatatatat actgaacttt tggatggatgc tcttcttttc 240
tgaggagacc taatggaacg aaaaaaatg tgtcattggg gcctgtggta caaacctgc 300
tgtgtatggg cctgtctata agaaacagcg attagctgtg acgttatgtt tctgacagtt 360
tatttactaa tgagcacatc ttttaatttac taaaaaaaaa ataaaaa 407

<210> 29587
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-H1

<400> 29587

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gcacgaaccc atggcctccg gcgagcttgc ctgcacctac gccgctctca tcttcagcga 120
cgatggcatc gccatcaccc ccgagaagat cgccacgacg gtgaaggcgg ccaacatcaa 180
ggtcgagtc tactggccgg ccctcttcgc caagctcctg gagaagcgca acgtcgagga 240
cctcatcctc tccgttggat ctggtggcgg agctgctcca gttgctgctg ccgcacctgc 300
tggtggtgct gcggctgctg ctgccccggc tgtcgaggag aagaaggaag aggccaagga 360
ggagtctgat gaccgacatg ggcttcagcc tggtcgac 398

<210> 29588
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-H10

<400> 29588

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caaggttcca agtcagcaca aacatcaagc aaggcccctg caattacagc gccaaaacct 120
acagcatacc gccacactca tgctaagggt tctgcagaac ttcaggacaa gctcttttgt 180

ggactagctc ctgctggggg ggagatgagc aaaaatgcat tgcgaaacaa gaagcgcaga 240
gagaaacaga aggaaaagaa agctgctgaa gcgtcaggct ctctgctga tgaaagttga 300
tctgtgccgg attactttca gcattgccaa ccaccgagta taacagtgaac aaatgatttc 360
tttcaatctg gtgaaacggc catgcaccga ttcacgttta caatatgaaa ctttttggtg 420
gtttg 425

<210> 29589
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-H11

<400> 29589

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actgttcgct ctcttgatc ctgtgcatgg tgctaaaaaa ctcgagcagc agaacttcct 120
acctgaggaa atcgacacgc ttgagcagaa ctctctgtcc tatttctttc gggatgatgga 180
aaagagcaat tttacatag taaatgacga tgagggtgaa cttgctcatt ctggacaata 240
tctgttgaat cttccatta aagttgatga atcaaagtta gatgacaaac ttctgtcgaa 300
gtattttaag gagcaccgtc atgaaaacct gcccgacttc tcagacaagt atgttatatt 360
tcgtaggggc attggattgg accgcactag caactttgtc ttcattggaga aagtggacat 420
gatcataact cgt 433

<210> 29590
<211> 268
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-H2

<400> 29590

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aggggggccc atggcgaggg ggtggccgca gtcgaggtct cgcaggttga tgggtgtcgg 120
acgaggtcca ggtccgaggg ggcaaccggg ggcgggtgctg ctaaagtcgc tccgcctgag 180
aggaagaagg cactgctggc cgctgtgaac gaaactgctt cagaggagcc tgggtgccgta 240

ggcggtggtg gtggggactg ctgaagct

268

<210> 29591
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-H3

<400> 29591

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gtgaaaaggt ttgggaaaag atagcaccag gtctggactc gcaatttgat gccccctatt 120
cacttccttt gcttgacca cgccgctgc tacttctaaa tggcgctgaa gatcctcggt 180
gccaataag tggtttagga gaagctatct caaaaactgc taaagcttac gaagaatctg 240
gttgcgcgga gaagttcatg ttcattgcag agcctggagt cgcccataaa atcacaatcg 300
acatggtgaa ggcagcaagc gaatggttcg atcgcttctt gcatgcatga atgcaaaagt 360
tattgtcgcc catcatttgt tctatatcga ttgtgatttg tcaacagcat ccagtatg 418

<210> 29592
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-H4

<400> 29592

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agctgaagaa gtcgactggt tctcctacca ctgatctaga ccttcttgaa actattgctg 120
acaaggcctt gaaggaagac tcagttttcg ttgtgacatc aaagaaatca aatctggata 180
ggtgcaaact tccattgga atccgctgt ttgtatcagc tggccatact gaattagaca 240
tctccaggct tctctcatcc ttgaagaggg tttctgcacg ggttctttca gattactttt 300
gatccacatc ggattccctt aagacgaaag ccatccattt tctacgcgct ttgtactcta 360
ggccgtgtgt gtttggtaaa tgtacataac ctgtacattt ctacatgtta tgaattgacc 420
tttgtgca 428

<210> 29593

<211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-001-Q1-K1-H5

 <400> 29593

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 atatatgatc aatctagggc ggacaataaa gatgtcatga agctcatact tgggaagcat 120
 aatctttcag caccaattac atcatagccc cgccctgagg tggcagtaaa atcccagtca 180
 tactttttca cccattcagt aaaagcaatg gcagttacac aaacggctaa ggggatcact 240
 tccaagcaga ttctgattgg tactattggt gaccaggttt tggcacttga taagcgctat 300
 cttgatccac gccgttcagt gaacccgaca caacatgaaa aagaggacgg cattatacca 360
 ttaacagatt ctttgccat aatacctcag tcctttgtga cgcactctca 410

<210> 29594
 <211> 308
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-001-Q1-K1-H6

 <400> 29594

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 tcggtttcgt aggggtgagcg catcgagatg gcctcgtagg atgttgagta ccgctgcttc 120
 ttcagctgcc tcgcctggac cacggacgac cactccatgc acaatgcctt cagcacctac 180
 agcgaggtgc tggactccaa gatcatcatc gatcgggaga cgcataggtc ccgcggttc 240
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 tgacagaa 308

<210> 29595
 <211> 381
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-001-Q1-K1-H7

 <400> 29595

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 tcggtttcgt ggggtgagcgg atcgagatgg cggcgtcgga tgttgagtac cgctgcttcg 120
 tcggcggcct cgcctgggcc acggacgacc actccctcca caacgccttc agcacctacg 180
 gcgaggtcct cgagtccaag attatcctcg atcgggagac gcagaggtcc cgcggcttcg 240
 gcttcgtcac cttctccacg gaggaggcga tgcggaacgc catcgagggc atgaacggca 300
 aggagctgga cggccgcaac atcacgtca acgaggccca gtcccgcgcg cgccttcgcc 360
 ctccgaatcc caatggcgtc c 381

<210> 29596
 <211> 351
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-001-Q1-K1-H8

<400> 29596
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 cgaacaagag cagtgtgtgt tcccggctct ttccaatcag gatctggtga agtttttgcc 120
 tttcatatcg aagaaattaa taattcatgt agagggagga ttcttccaac aatttgtttt 180
 ggatggagac ttagatctcc aaacactcgt aactatccta ctaggtggtg acatcagtcc 240
 ccaaaaacgt ttatggatcat agagtctgcc cttcgtttgt cagtcgggca atttttcttg 300
 catacaatgc cttcgtttaa gtatcgggatg agttgctgcg actaanaaaa a 351

<210> 29597
 <211> 422
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-001-Q1-K1-H9

<400> 29597
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 gctgctcctc ctgctggtgc cgaggagccc gcccgggccg agcctgtcgc cgaggcagag 120
 gctgctgctc ccgaggagct cgcgcgggac gagccggagg ctctgctcc tgctggtccc 180
 caggagccgg ccgcccaggc ggaggctgct gtcctgagg agcccagaaa ggccagcgag 240

tgaggccgtg cgcacgcagc ggccggcggcc agggcccagg ggatcggcgt gcgcgcgtgg 300
 cggggtagtc gtcgcgcgc gtacatggca gtatgacacg ggattttgct gttcagtacg 360
 ctacggttac tggcgtctct ctctgtgtgt gtgtgtcgta cgtagcccgg tacgtatcta 420
 gc 422

<210> 29598
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-A10

<400> 29598

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 gatcaatggc gtccgagcag ggagtcgtga tcgcgtgcc aagcaaggct gagtttgacg 120
 cccacatgac caaggcccag gaagccggca agctggtggt catcgacttc actgccgcct 180
 ggtgcggtcc atgccgcgcc atcgccccac tggtcgtcga acacgccaa aagttcactc 240
 aggtcgtctt cctgaagggtg gacgtggacg aagtgaagga agtcaccgcg gcctacgagg 300
 tcgaggcgat gccgaccttc cacttcgtca agaacggcaa gacggtcgcg accatcgtgg 360
 gtgccaagaa ggacgagctc ctggccctga tcgagaagca tgccgcgcct gcgcctgcgt 420
 ctgcgtctgc ctaaaggaga t 441

<210> 29599
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-A12

<400> 29599

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 gctaccgagg acgacgacag agaggagggc gagatcgccg ccgacgcccc ctgcctgccc 180
 ctccccgccg cgcacccgct cgagcactcg tggaccttct ggttcgacaa cccgcacggc 240
 aaaaacaaga tggccgcctg ggggagctcc atccgaccca tccacacctt ttccaccgta 300

gaagacttct ggggcctcta caataatata catcacccta gcaagttgat tggcggagct 360
gacttccatt gcttcaagaa caagattgag ccaaaatggg aagacccta 409

<210> 29600
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-A2

<400> 29600

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ctggtcgtgc tctttacctc ccgaatttcc gtgaaaactc caccgctcgt gcagtcgtgt 120
gtgcagttgt gtcgcgccgc tggtgaaacc cctccacgcc ggtgttccat cccctgcgcg 180
tggtcatgtg ggtgtaccag cgtccgggag atccgtccgt gccctcggga cgagctaggc 240
gaccccgaaat cggggggaat tccacaccgt agtgcgagac atgagcagaa ctacctgtct 300
ccgtggtcgg ctgcgttgcg caggcaattc ctaacgagcc agtgactgat gatccaggtg 360
ttcagcaggt ataggttgct gagcatgagc tcattgaagg agaaagaaca tgtggcccag 420
ga 422

<210> 29601
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-G8

<400> 29601

cggacgcgtg ggcaagaatg gagtggagga agtgcttggc ctgggtgagc tcaacgagtt 60
cgagaagaag gggctggaaa acctcaaggc cgagctcaag tcttccatcg acaagggtat 120
caagtttgcc cacgggaact aggcaccttg cgtccttgcc cggcttctaa caattgatgc 180
ccgcccttgc atttttgttt gactgcctat ttttcttgcc ccccgatatg ttggggcaat 240
gaggcgtagt ggtcgataat aaaaccacgc ggaacataga aaacgtgtac cagaaactgt 300
ttgcaaacac cggcgctctt ttttgtgttg aaccaccatt agttgagccg tgagggaatg 360
gtgaacaagc tttccaaagg ataaaaa 387

<210> 29602
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-F11

<400> 29602

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aagaaaaaaaa aaaaacgcac tctgaatcaa aaaaaaactt tcatataatt actcttgcta 120
aaaaataaat ttacctatgt ttacttcgt aaattaatta tatatgtgca ttactaataa 180
catgcgaccc ctattatcaa gttcctatct tattatcact attcttgcat tgcattagtt 240
ttcatattga tcgcacactc aagcttttca tgatctaggt tcttaaattc tactctcgct 300
ctatcatcgc cttaacctca catagatcat aactttgtct ttactcattc acctatcttt 360
aacacttcta taat 374

<210> 29603
<211> 174
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-F2

<400> 29603

gcgtccacgc gtccgggaat gtatcacatg atgggtacttc tgggttgctg ctgaagcaga 60
gagagccata gtcgggtcgg gatttgtacc cacctagctg aacctgaacc ttgaagtttg 120
gtgcaattgc aatcgatttt gtaccactct tttaaaaagg gtatcgggtca atgc 174

<210> 29604
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-F4

<400> 29604

gcggctctcg atccgatccg ccgagtgcac accacctttc cccactccga tcgaatcgat 60
ggccgccgag ggcgagaaga agatgataac cctcaaaagc tccgatggcg aggagtccga 120

ggtggtagag gcggtggcga tggagtcgca gaccatccgc cacatgatcg aggatgactg 180
 cgccgacaac ggcattccctc ttccctaactg taactccaag atccctatcca aggtaatcga 240
 gtactgcaac aagcacgtac atgccggcgc cgtcgccgcc gtcgtctcga aggccgggttc 300
 cgacgacgtg ggtgccgtct tcggcaacag caccgtcggc tccggtgagg accttaagaa 360
 ctgtgatgcg gact 374

<210> 29605
 <211> 365
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-F5

<400> 29605

aaaaaaaaa aaaataaaaa taaataaaat aaataaaaaa aaaaaaatta aaaatggggg 60
 aaataaatat tagatgaaaa aattaaataa ataagaaaat ttaaattgcta aaaaatggag 120
 gatattgtta taggttccac atttaccaaa gtatgctttg gaagtgtatt tcattcatgt 180
 tgcattgtta attatacaca atgctatctt gtttaataca ttctgacttg aaaatcctta 240
 ttgtgaatta tttaattgtg cttactgcat tttctatttt agacagttaa gcaagataag 300
 aatagtattt cgagaatatg acattatatg aatttagcat gatcattgca ttaagggatc 360
 gctct 365

<210> 29606
 <211> 288
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-F6

<400> 29606

gcggtactgt tggttggtatc aagttcaaag atggcattgt cctgtgtgtc gagagagctg 60
 ctaacctcaa agatgatgct tgaaggatca aaccgaacgt atccattcaa ggcaccgtga 120
 ctctggcttg gatgttgctg gactatcagc agatggcatc aaattgctca aggaccagat 180
 cacaagctga cattgattaa tagggtaatg gtgaacccat ttctgtgaag tactaggctt 240
 atcgacttac acggtatact cattttttaca ctgctgtact ggtggatc 288

<210> 29607
 <211> 304
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-F7

<400> 29607

cttcaagcta gctgatcagc caaaaggggg cgaaagacgg cgtttctgct cgccgtcttt 60
 gttctctttc cttggtttta aacgattttt ctttctcttt tcgttgcata aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aagaaaaaaaaa 180
 aaaaaaaaaa aacaaaaaaaaa aaaagaaata aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaacaaa aaaaaaaaaa aaaagcagct gagctctcaa aaatccgagt ttaaaaaccc 300
 ttgg 304

<210> 29608
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-F8

<400> 29608

cgagaagggc ggcggagggc acttcgtcat cgggaccaag gccagctaca cctgctgccc 60
 gctgctctcc ggcgtggccg acctcgacgc cgcgctctgc ctatgcacca ccatcaaggc 120
 caaggcgtc agcgtcagcc tcgtgctccc cgtegccatc tcggtgctcg ttaacgagtg 180
 cggcaagcac gtgcccttca gttccagtg cccgtaatct atagtacaac aattaagccc 240
 atactgatca tcggtgcat atatgtgcta gctactatga agtatcacca ccactaatct 300
 atatccgcat gcatgcatca gtgcatgggt gattaagggt ttatacgctg tcaaagttat 360
 acacgcatac ttatatcaca catatatata gcttatatta agcatatata aggtagcttt 420
 a 421

<210> 29609
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-F9

<400> 29609

aggaggtctt cattctcagc taagcctgaa tatccagaaa atggctccaa aaattctgca 60
gctctgccaa gctacatggc tgctacacaa tcagcaaagg cgaaactgcg gggaaatagc 120
tcacaaaaac ttagctctga ttcagcagag aaaaacggct tctactcgctg tctactccctt 180
ccatcctcta acaacggtaa gatggtttca cattctccac gtacacaaag gccagctaata 240
gctggttgca aggatggagc gaaagggtgac aaggctatgc tgtcatcaag agatgcaagc 300
gagagaccac tgaaagctga gtggagacgt tgacgcggcg aatcaaatac aaatcctgca 360
tttgattagc gtgaccgttt ggggtggatgg atcgcccttg cagaatgctc ggatttgttt 420
tgcttgggat gt 432

<210> 29610

<211> 221

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-G1

<400> 29610

tcgcttcaag ctatctgatc aaccaatatg ttaccaaaga ccgcctttct gctcgccgctc 60
ggttttttaa aacctttggt ttaaacaata ttactatctc ttttcatagc ataaaaaaaa 120
aaaaaaaaatta aaaaaataaa acaataaaaa taaaaaatat aaataaacac atcaatataa 180
taaataataa aaaacaaaat aaaccttaaa cataatcaaa a 221

<210> 29611

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-G10

<400> 29611

gcgtgcaccc gcatcatcac caacacgcac gtcggattca gctgcctttc agccttaaca 60
gggaggtctc cgctgactca gcgggaaact cgttactcaa acagtaggac tttcagggga 120
gacgcctggc gaaaagcatg cgtaagatca acgtcgcata gcgactacag gacgtctaga 180

tcaaatgcct acccagacgg gacactgagc ttcagaatga ccacatgaac ctcaggacca 240
agattgacga gggagagcaa cagctgcagc aagtgactgt ggcccagtct gtcgcagcag 300
cagctgccat ccacgtggag ctgaatccgt tcttgagat ggatacaaaa tgcttcttcc 360
ctggcgggtcc cttcgcgaca ctggacatga agtgcttctt ccccggcagc ttgcagatgc 420
tggaggcaca gtagcgccag atgct 445

<210> 29612
<211> 261
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-G11

<400> 29612
ctcattcgat cggatgaact aatctattct gatggcatca tctaaacgtc cttcgtctgt 60
ctctgatgtg cagtcggggg gccattagcc tttagataag actcactgga cttcgttaaa 120
ggctactgat atctttaaat aattctgttt ttctctcagg tttttaaact ttgaaacaca 180
aatatgcact tatactgcac ctactatata aacacacca tatcttaact aggtcactat 240
tactagaact gttgaaactg g 261

<210> 29613
<211> 374
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-001-Q1-K1-G2

<400> 29613
tcgcatgaca gagggctctgc attcccagtt gcaaaaagaa atgcaaagt tgacacaaga 60
gtttgacggg tcaacaaaga agctcagtga gttggaaaaa aataagttag acctggagag 120
catattgaaa gaactgaata acaccatttt aggtttgaac tcggagaagg atgcaacact 180
ccttcagcaa cagcagtctt tacagaaagt atctgatttg gagttagaac tctcaaagat 240
gcagttggaa atggaggggtc cttgaagaca nctgtttgtg agcttgaaga aggatgggtg 300
agncgccata cagaaacana accagtcctt tgaggtgctt aatacagaaa cttggtgagg 360

agataaatac attc

374

<210> 29614
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-G3

<400> 29614

cgagtaaact tccagtcagg cattctccat atgtatcagg gattttacat ccgttgaagg 60
tgtttcttga aggggaccgt atacgctatc tatcagaaga tgataaaact aagttgtgtc 120
gtgggtctac agataagatt actgcaattt actatgactt ggtctctgaa gttgtcactg 180
tggcaaggaa aaccgagtct tcgttgcaaa gactgcgcca aggtgcacaa aggcgagtag 240
gagctagtag agatgcctca gataacatca tatctgatac agacaagatc tgtatgcagc 300
tatttcttga tattcaggag tacgcacgaa accttcgtgc gataggaata gacgcgagag 360
agattgattc ctacagagct ctatggcagt gtgttgcccc aaaagacaaa catgagaa 418

<210> 29615
<211> 197
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-G4

<400> 29615

tcgtccacgc gttcgtacac acgtacgctc actctttcta aaaaaaatta tataaatata 60
gaggatgcat attaaatagg acgcgtatac aaatatatat ctaaatatga taataactaa 120
gtagtatctt atttatacac ataagattac tggagtgtat tatgacttga aatttgaagt 180
taatactggt tcattga 197

<210> 29616
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-G5

<400> 29616

cccacgcgtc cggacgtcac ctctgtttca ccagttacca ccggagtcgc gagtgaagcg 60
 caggtcgggt tcgctttttt cctcggcttc ttctctctcg tccatcaacc cagggggaag 120
 gagcgggagg gagcgagcca tggtagtcag cacgttcaat ggacccggga ttgggatcgg 180
 gttcgggtgc ggctgcgggt tcggcgctcg gtgggggttc ggaggaatgc ctcttaacat 240
 gttcggcttg ggtatcgggt ggggttgtgg atttggtctt ggactaggat ggggctttgg 300
 aaatgctttt ggttgtcagt atcgatcttc aagagttcag ttccaaggca ttgaatttca 360
 gaagaaggcg aattgagatg atgcacaaaa agttgtatca ccggagcttt gctcaa 416

<210> 29617
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-001-Q1-K1-F10
 <400> 29617

cccacgcgtc cgctgatgta tatagctttg gcgtggttgt gatggagatc atcagtggaa 60
 ggaagaacct ggacacttgt cggctctgaaa agagctttca tcttattacc ttgctagaag 120
 agaagttgag gagtgatcgc ttggtagatt tgattgatat gtgcattact agtgacagtc 180
 aggcacagga gcaagaagca attcagatga tgaagctcgc aatgtggtgt ttgcagattg 240
 attgcaaacg aaggcccaaa atgtccgagg tcgtaaaagt cttggaaggc tctatcagtg 300
 tcgaaactga catagatcat aactttgtcg tgacaaatcc accaagcttt agcgctccta 360
 gaattgtggt catgtcagct ccacctctag cttcagaagt gtcaggccca aggtgaaatt 420
 cct 423

<210> 29618
 <211> 361
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-001-Q1-K1-G6
 <400> 29618

cccacgcgtc cgcacagatc tgcaatgatt tacagggtga tcttcaggat attgttatgc 60
 ttgtcatatc gtggcatatg aaagcttcca ctatgtgtga attcactcgc caggagttca 120

ttggtggact gcagtcaata agagtggatt caatagagaa gcttcaggcc gaagtaccct 180
 caatggcagc tgacctaaag gatgaccaga agttccatga aatatacaac tttgcatttg 240
 cctgggcaag ggagaagggc cagaaatctc tcgcattgga gactgctatt ggcattgtggc 300
 agttgctatt tgctgaaagg agctggcctc tcattgacta ctggtgccaa tttctacagg 360
 t 361

<210> 29619
 <211> 264
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-G7

<400> 29619

caaaaccaat cgcggagagg caatcaccac gtacgtatac acacggggcac gtaactagct 60
 agctagctag cagtcgtaga atgacgatga ggggtctctc tgttgcggtc gctctggtcg 120
 tgggtggtggc cgcggcctgc cttgccgcgc cgcggggcgcc ggacggcgcg gacgagtgcg 180
 gatgcgacgc ctgcggacac tgaggcgctg aggctggcgcc cgtgcgcgctc ggcagctgag 240
 gaccccggtc gctctccggc cgga 264

<210> 29620
 <211> 229
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-D4

<400> 29620

gcgtccacgc gtgcggcccc ggttcagcaa tcgcagagcg gcgatggacg gcggcgggggt 60
 ggatacggcc acgacggcgg cctggatgga gaagcaccgg cagatgtacg agcggggccac 120
 ccggcacccg ttcaccgtct ccatccgcga cggtaccgctc gacatgtctg ctttcaagcg 180
 cttgctgagc caggactatc tgggttgaaa gggatttggc gcattcata 229

<210> 29621
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-D5

<400> 29621

gaaccttccg ggcctagggg tctcgatggg gcccgagcag gaggaggccg tgctggagac 60
catctgggac ctccacgaca aggtcagcga cgcgatccac gccctctccc gcgcccactt 120
cctgcgcgcc gttcgccgcc gtcctctggc ctccgcccc ggctctgtgg acgtcaaggg 180
cggcgggtctg ggtctcggcg cgcgcggcgg agaccaggtc gtcgccctgg cggccctggc 240
tgatgaggcc aggagcctgc acgccatccg cgcgcgcgtt gatgacctct aggaccagtt 300
cgagtgtctt ctgcgcgcgc agacacagca tcaggaccga acgagatttc gcgattgcca 360
gtcttgatca aagtcgcac atgctcgcga taaggctcaa agagcatcac gggagaaacc 420
ac 422

<210> 29622

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-D6

<400> 29622

cccacgcgtc cgggcagaag cattgacaat ctaccgctca aatgagtctt ctctgtggtt 60
tcatgataca agagttcagt tagacatgtc aatctgcaag tactgaggca atgatatggt 120
tcaataaaaa aaaagaaaa aaaaaaaagg gctaaaaata aaaaaatcca aacttaaaga 180
acatatataa caaataaata aacttataaa taagatgaca gttattttta atagagttgg 240
ccttgTTTTT taactattta 260

<210> 29623

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-D7

<400> 29623

cccacgcgtc cgaacagctt ctatgaaaaa aaaaaaaaaa aaaaaaata aaaaagagga 60
aaaaaaaaaa aaaaagaaaa aaaaaaaaaa aaaaaaaaaa aaaacaaaa aaatgaaat 120

actaaaataa aaaaaaaaaa taaaaaaaaa aaggccttaa tttttataga ttcaaacttt 180
aattacacat aaattaaaaat ttttaacatt ttattataat acatttaaatt aaaataaatt 240
gcccttggtt taaaaatttt tattattgta aaaacctttt tattatcaaa attatttcat 300
ttgaataata tacatttttt t 321

<210> 29624
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-D8

<400> 29624

gtcaggttgg atggcaaacg gattaagttg cagatctggg aactgcagg ccaagagcgt 60
ttccgcacga ttactactgc ttactacagg ggagcaatgg gcatcttgct tgtgtacgat 120
gtcacagacg agtcatcttt caataacata agaaattgga tcagaaacat tgagcaacat 180
gcttcggata acgtgaacaa aattctggtg gggaataaag ctgatatgga tgaaagcaaa 240
cgggctgtgc ccacttcgaa ggggcaagct ctcgctgacg aatacgggat aaagtttttt 300
gaaacgagtg caaaaacaaa cctgaatgtc gagcagggtt tcttttccat agcaagggac 360
atcaaacaga gactttcgga aaccgattcc aagcctgagg atcgaacttt tcagatc 417

<210> 29625
<211> 332
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-D9

<400> 29625

gccaggtatg tgaggttcga ctgggaacaa ttaccgaatg tactgagac taccggggac 60
ggccacgacg aactgagctt acgacacgat ccttaagaac ctctacatca tctaccacaa 120
gcgactaatg ggctgactac accttcaaca actaacgtga cggtgtcaca ttgaagatca 180
tactgtatcg tcagacacga actgtccgag gcttcgactt catcacctta ttgaccaacg 240
acgacatacg caatgccatc gaaggcatga acggcataga gcttgacggg cgtatcataa 300
acgctaacca ggtccaattc ctcagagggc gt 332

<210> 29626
 <211> 69
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-001-Q1-K1-E1

 <400> 29626

 tcgaaaaaaaa aaacatacaa acaaataata tttattttaa aaaaaaaaaa aaaaaataaa 60
 agggggggat 69

<210> 29627
 <211> 415
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-001-Q1-K1-E10

 <400> 29627

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 tgctcgcatg tcaatccata ggcttgaggt tgagcaatcg tcgaataagg attaggagat 120
 cagaggaaca ggacagatat ttggaagggt ggaactggta cgctgaaagt gaagaacgtt 180
 aaaaatgggtg ccgtcccatc taaagaccga gttgcaaagt ctgaccctta gcgccgcagc 240
 aattgaagga gatgtttggt ttgaataatc aatctatctt agatgaggtg atgtatcata 300
 agttcattcc acaaatttgg tggaataaat ttattcctca tattatgact aattattaac 360
 ctatgaggaa taaaatcatg gtggatcaac ctattctatt atctaaacca aaagt 415

<210> 29628
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-001-Q1-K1-E12

 <400> 29628

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 tgtttcaaat ggtgctgtgc ttagcattgg atgtctcaca tccggtgaga aagcaatgaa 120
 cttatcagaa tctgtggatc aagctaatga aatcacaaag gcacttccta cgagtcagaa 180

caatactgca ccagtaattg ctcaagcaga ttgtggagta gagatcagct ctggtgtcat 240
catgcacgtt gctgtgtctg cttcatgcaa tggaactaca gagaaaaagg tgaattcgaa 300
gtcaaagaag tttgtgaggt atcctgttgt gaacatgtgg ttaggggtcca gacatctaaa 360
gccaggaag aaagcgaacc gcatgagaag taaaatgata agacgtgttg tagcctgc 418

<210> 29629
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-E3

<400> 29629

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actactagcc atatatgata tgcataatcc gagtgggtgaa cattatcaat atcccgcaaa 120
tgatttctaa gctccggcgg agaagaagcc caaggccgag aagcgcctac cggcgggcaa 180
gtccgacagg taaggagggc ggcgagggca agaaggggaa aaagaaagcg aagaagtccg 240
tgagaccta caagatctac atcttcaagg tgctgaagca ggtgcacccc gacatcgga 300
tctcgtcaa ggccatgtcc atcatgaact tcttcatcaa cgacatcttt tagaagctcg 360
cggtcgaatc ccccgagctg gcgcgtata acaagaagcc caacggcacc ttctgcgaga 420
tcc 423

<210> 29630
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-E4

<400> 29630

atgcgtacgt aaatggattc aaatagatgg atttatctca gcagggacac cgaaccacac 60
aatgcagctt cacgactccg cgagggccaa taaacagatc aggcactaga gctgcacata 120
cggcgaccac cactcagtgc ttattcctcg gcgaggtcct tcttgacca tccgccgaca 180
agggcgccgc ggctgttgca gcagcctttc tctttggcga cgccctttcc ggcgcccat 240
cagcgggttc agaagccttc ctcttttgct aagccctcgg cacggtagcc ttcctttttg 300

ttgacgtcg

309

<210> 29631
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-E5

<400> 29631

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cgcacgcgtt cgaaaaaaaa taaaaataaa aatgaaaaaa aaaaaaagag aaagaaaaag 120
aaaaaaaaaa aatatgaaaa taaagacaaa agaaataaca aaagcactta aatacgagtc 180
agaacaatac tgaaccagta attgctcaag cagattgagg agtagagatc agctatggtg 240
tcatcatgca cgttgctgtg tctgcttcat gcaatggaac tacagagaaa aaggtgaatt 300
cgaagttaaa gaagtttgtg aggtatcctg ttgtgaacat gtggttaggg ttcagacatt 360
taaagctagg 370

<210> 29632
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-E6

<400> 29632

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tcaggactcc acgatcgcca agaaacagat caggaactag agcagcacat acggcgacca 120
ccactcagtg cttattcctc ggcgaggtec tcttgaccc agccgccgac aagggcgccg 180
cggctgttgc agcagccttc ctctttggcg acgccctcgc cggcgcccca gcagcgggta 240
cagaagcctt cctctttggc gaagccctcg gcacggtagc cttctctttt gttgacgtcg 300
tcgccggcgt cgcggcaccg ggcttctgct tgctctccaa caccagctgc tgctgctgct 360
ccgcggcgat gcggtcg 377

<210> 29633
<211> 392
<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3067-001-Q1-K1-E7
 <400> 29633
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 gaaggctccg gcggggaaga agcccaaggc cgagaagcgc ctcccgggcg gcaagtccga 180
 cggtaaggag ggcggcgagg gcaagaaggg gaaaaagaaa gcgaagaagt ccggggagac 240
 ctacttgatc tacagcttca aggtgctgca gtatgtgcac ccctacatcg ggatatcgtc 300
 caaggccatg tgcattatga actcctgctc atcgactgtc tctagaagc tcgcgtcctt 360
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<210> 29634
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 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-001-Q1-K1-D3
 <400> 29634

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 tcttataccg ttcaccgttt gcatacatte cgcagccggc gacgtgtgag ccttgaagtt 180
 cttggtgttc cagcactgtg ttgttgtgag agactttggt gcgttaatag cgagtgcgca 240
 tactctcata ctcttttcgg gatttcggct ccttcatggc aatcatgctt gacacactgt 300
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<210> 29635
 <211> 145
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-001-Q1-K1-E8
 <400> 29635

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tgaagacaaa agtcgtgggc tcaataatcc tgggtgctgaa aacagggctg tcaaggagca 120
gatgggttga gcctgtaaga atgct 145

<210> 29636
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-E9

<400> 29636

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tcggcgctcc cgttcccaaa cctctcgtct gctgctgcc tgcttgcaaa aaggagtttg 120
tcatggcgct taagcgcatt ctcaaggagc tgaaggacct gcagaaagac cccccacat 180
catgcagtgc aggtcctgct ggtgaggaca tgtttcattg gcaagcaaca attatgggac 240
cacctgacag tccctatgct ggtggtgttt tcttagtgaa cattcatttc ccgccagatt 300
acccttcaa acctccaaag gtttctttca agacaaaggt cttccatcct aatatcaaca 360
gcaatggaag tatatgcctt gacattctca aagagcagtg gaaccctgct ttgacaattt 420
ct 422

<210> 29637
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-F1

<400> 29637

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tatatggttt ttgtagggca tgggccagag tagttgctgg aggtgtttcc catgcacgtt 180
ccatgttcaa ttatacacia tcctatcttg cacaatccat tcccacatca gcatgggcat 240
tccgcattat ttccttgtgc aaactgcatt ctctattgca gacaatgaag caagagaagt 300
ttcttatttc gagaatatca caatatctgc atttagcatg agcataacat tagcaatcgc 360
tctttctttt cgatggatct cctatggaaa aaaagaagag ca 402

<210> 29638
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-B9

<400> 29638

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 cccttcttct ccccgctctc cgccccgacg ctcaacgatt tcgctggcag cgagtacgcc 180
 ctcgtcaccg agcgcggaga ttcgctctcc aggtcgtcg gcgtcgctgt cgcggccgat 240
 gctgcctccc gcgaggttcc cgtctctgtc tcggagtaca tgcgaccgac gccgcgctca 300
 gcctccgccg cttcgactt tgaggaagca gcaaccttcc ttgccgatga gggctctggat 360
 tacgcccctc tcgtatcaga tgatggtgag gttgttgatc taatcacc 408

<210> 29639
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-C1

<400> 29639

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 cgcaaacaac tgccctccac ttaggaagtc tgagattgag tactacgcca tgctggccaa 180
 agttagcgtg caccatttcc acggaaacaa tgttgatctt ggcaactgcct gcggcaagta 240
 ctacagggtg tgctgcctca gtatcatcga cccaggtgac tcggacatca tcagtaccac 300
 ccctggcacc cagtgagcca gccccggcac ccattgcagc tgcttcggct ttctcaaaat 360
 gagatgagat gtaacgctcc ggccctatgt ccgtttcctt ttttatcttt tagctatgta 420
 at 422

<210> 29640
 <211> 380
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-C10

<400> 29640

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gagggagtca ttgtatttca tggagacctc tgcactcgag tcgactaacg ttgaaaatgc 120

attcgcagag gtctgaactc agatctaccg cattgtgagc aagagagcag ttgaagctgg 180

cgaagattca gcatctgggc ctggcaaggg cgcgaagatt aacatacagg atgatgtttc 240

ggcgggtgaag aatgggtggct gctgctgtag ctgacctgcc ctgatgtatt tattgagcag 300

ctgtggtgat gtatcttatg gtacggcata tccagcgacc gagaactggt actggcatta 360

gcagcttcta tgatacctag 380

<210> 29641

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-C11

<400> 29641

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cgccgccaac atccccggca agtgcggtgt ctccgtcggc gtgcccata gccccaccgt 120

cgactgcacc aagatcaact gatcgatgga accatagtgg aggtagctcg ctcggttgat 180

ggcagcgtac gtggccatca gcagcatgca gtcgtcgtcg tagcagagat gtcctagcta 240

cgtgtgtgtc atgcatcaga ctggcacata ataaagaagt agatcatgca cccactagtg 300

atcacttcgt ctagtgtecc tccgttcaat gtcgtcgtcg tcgtcgtgta ccttacgtga 360

catgctgtaa cacgtacgt agcaaagcag 390

<210> 29642

<211> 421

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-001-Q1-K1-C12

<400> 29642

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 gagagaacaa ggaagaaagt tcatgtgttg cgtggctgcg ggagagacga gcttctacag 120
 atcatggact actcctccct cccccatttc tgcagacagg agggctcggg ctcacccaaa 180
 cattcgtcag ggcagccga taactgttcc tctctcgacc acccgttcca ccaggagctc 240
 tacagcttca tccaggagca ggcgctgaac caggagctca tcaagcaggg ctcttgcac 300
 gtgaaaatcc ccgagcagga ccctgaggac gcaaagatcg tggaggtcat cgaggccgag 360
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 tgtct 425

<210> 29646
 <211> 411
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-001-Q1-K1-C6
 <400> 29646

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 caatcaaaaa ggaggttgaa gatcttgagg ctgatggtat tcaggtgatc caaatcgatg 120
 aggcagctct aatggagggt ctggcactac gcaagtcaca tcatgcattc tacctggact 180
 gtactgtcca ctctttcaag atcaccaact gccgatttcc agacaccaca cagatccaca 240
 cccacatgtg ctactccaac ttcaacgaca tcataactc catcatcgac atggatgccg 300
 atctgatcac tatcgagaac tcccggctctg acaagaagct actgtccgac ttccgtaatg 360
 gtacgaagta cggagctgac attgaacctg gtgtctacta catccaatct c 411

<210> 29647
 <211> 337
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-001-Q1-K1-C7
 <400> 29647

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 tcatgatata agagttcagt tagacatgtc aatctgcaag tactgaggca atgatatggt 120

tcaatagaaa aaaaaaaaaat aaaaaaaaaa aaaaaaaaaa aaacatacta tataaaacaa 180
acaattaaga aagaagaatg atataaatac aataaaataa aaacaaaact aacaacagga 240
gatccaaata ctgcattgac aggtcataga tatgttcagc taacattact agtcatcat 300
ttggaccttc taaataagtt caccttacat caaatgg 337

<210> 29648
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-C8

<400> 29648

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aaaatttgtt ctgatttcat tcttatgcat gccattgctg tacctactct ataacacagg 180
taatttgatg gatgaatggt cttgttttct ttcattcttg cagaactcac aacagggatc 240
caaatttggt aagacagggt tagatagttc agctaacatt gggagctcat caattgcacc 300
taccaagacg ttcaccctgg atcaaagtga atgcctacgg cagaagaacc gggttatgcct 360
tgacatcggt ctatatccag taagatgcta 390

<210> 29649
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-C9

<400> 29649

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cagacgggat ctgcgaatgt ggggtgggaag tgtagcatga tcattctaaa tattcaggtt 120
caattggtcg cttctttgaa atcacattgg ctatacggag atgcataccc cagtatgggc 180
tcaagtataa cttacatgtc tgacatcgca cagccttctc ggaatatcaa agtcgtcgcc 240
tgatcctatt cagccaata aacagtgggc aagaactctg ttgattgaaa tccattcatt 300
tatactact actgcctata gtctggcgat tgatcaagta ttcgatattc gttattttca 360

tccataccgt gactaccgtt gtaag

385

<210> 29650

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-D1

<400> 29650

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gacggagctt ctcgaatacc ctgcttgctt cggcctcacc ttcttattct ccgccgaaca 120

agtcttagac gcctaataccg tagtttacat cccgaagggc ggcaaggggtg atccaggccg 180

accatgggtt acgtcgagag aagtgttggtg aaagacaagc ggactatatg gcgactgggc 240

ataatctcag acttcttttg ggctattgtc aacttcatca gaatcttctt tgacacactg 300

ttctcagtgg acaaaactga cagctacaac aaaaggtatg gggctggtga gaagtgggat 360

ggtggacctc gtggtggtgg tgggcggg 388

<210> 29651

<211> 376

<212> DNA

<213> Zea mays

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<400> 29651

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gcatggctgt tttccgacac cttaaagagct tgtttggtgg cttaccgtca gactatagtg 120

ctgcagaaac aactatcggt cttgccaaagg ctgtttcctc ttgtgtgctc catatggaac 180

tcagtgtctt cagtgcctgt ctagcagctg ttgtctgttc ttgcgagcag ctacctcttc 240

agccactcgg tactgcctct ggtgatggag tgtctcagat agttaaatct gtgctggata 300

gagcgaccga gctactggcg gatccctatt ctgcagccaa ctacagtaga tcaacactgt 360

cgcttttgca tgcgtc 376

<210> 29652

<211> 433

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-001-Q1-K1-D11

 <400> 29652

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 gcatcaccat caagccccag actgaccgct ggggtgttccc cgagaccaac actggcatca 180
 ttgtccttgc tgagggtcgc ctgatgaacc ttgggtgtgc tactggccat cctagctttg 240
 tcatgtcctg ctcatcact aaccagggtca ttgcccact tgaactgtgg aaggagaaga 300
 gctctggcaa gtatgagaag aagggtgatg tgctcccaaa gcaccttgat gagaaggttg 360
 ctgctctcca cttgggcaag cttggtgcca agctgaccaa gctcaccaag tctcaggccg 420
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<210> 29653
 <211> 349
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-001-Q1-K1-B8

 <400> 29653

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 gcatgaactc gccgaggaag acggtgttgt acgcaacgga ggcgacgtgg acggtgtgcg 180
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 tgtacagcat gtcggagttg tggcacatgc aggagatgca gccgttgtcc gggaagctgc 300
 gcgccacgga ggcctcgagc gcgcggtggt aggcgcgggt gatggcgac 349

<210> 29654
 <211> 398
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-001-Q1-K1-D12

 <400> 29654

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 ttgtcttaat aaactttatt tgactttgac tatgtaccgt tttcttaagt ttggatatta 240
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 acccgccatt gtactgctct ttaatcgcca tgggtctgaa tgttacgcgc aacgtgatct 360
 caacacttat tagttgccat ctgcctgcta tatatggt 398

<210> 29655
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-A1

<400> 29655

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 ttctcctgga cattctgatg taccatctat tgctgctggt gttagttctc gtgaatggcc 180
 tcttatctcg aaatacagag cttctgtccg cacccaatca cctaaaatgg aaatgattga 240
 ctcatgttt aagccacggg aagctgaaga tgatgggtctg atccgggagt gtttgattga 300
 cttctacacc agttctggga agagaaagcc tgaccaagtc atcatatttc agggacgggtg 360
 ttagcgaaag tcatttaatc aggtgcttta cattgagttg caac 404

<210> 29656
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-A11

<400> 29656

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 agattcaaaa aggcagtttc aggtcgattt tgggaggatt tgggtgctagt ggtagtaggc 180

gaccagcttg agtatagcga tgatgtctgt ggtgttgtgc ttagtgtccg tttcaatgaa 240
gacattctga gcgtctggaa ccggaacgca tcagaccatc aggctgtgat ggcattgagg 300
gattctatca agaggcacct caagctgccg cacagctatc tgatggagta caaaccccat 360
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ctcatgatac tcggcagctt cac 443

<210> 29657
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-A2

<400> 29657

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ttcatcttca aatggaagta ccacatcggt ctctcgaca ttctcatgta caatgtatag 180
cacttgctgc aaaacgtctt caatacctat cttatagtgg caatacagac ctactatcct 240
cacccaatca actcaaatgg acatgatcta ctgattgggt aagctatgca cagctgaagc 300
taatcgtaac gatcctcgag ggcataaacg acttgta 337

<210> 29658
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-A3

<400> 29658

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cctccccgag ctccgggacg gcatcacggc cgccaagagc acggtgtaca cgccggcgcc 180
gtcgacggcc ggcgcggagg cgtgggtgtg gcgcctggcc aaggcctacg tgaacgtgaa 240
cgactactgc tggcaccagg gcatcagcca ctggctcaac acgcacgcgg tgatggagcc 300
gttcgtgatc gccaccaacc ggcagctcat cgtgactcac cccgtgcaca ggcttg 356

<210> 29659
 <211> 242
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-A4

<400> 29659

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 caggccccgtg acggttgctc tgcgcgagat ccggatgtac cagtatagct cggatctgct 180
 gattcggatg ttttacttca tgctttttgt tcgtaagatt tctcttgact tgtagtcggt 240
 tg 242

<210> 29660
 <211> 395
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-A5

<400> 29660

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 ttctcctgga cattctgatg taccatctat tgctgctgat gttagttctc gcgaatggcc 180
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 cttctacacc agttctggga agagaaagcc tgaccaagtc atcatattca gggacggtgt 360
 tagcgaaagt cagtttaatc aggtgctgaa cattg 395

<210> 29661
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-A6

<400> 29661

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cttgcacggg tcagcaccgt ggctgggaac ctcaccctgc taggctctgc ggcaaatctg 180
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cacctccgat tcgggggtccc gtagaccatc atcgtcacgg cgatcggttt gctcatcgtc 300
atcagttact gaaacagctg aaggcagaag agcgtactgt aagagaagca gaatggataa 360
aaatccttcc aatacgaagt acatgtcaat taggcttgcc ctataactca agtgtgt 417

<210> 29662
<211> 421
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-001-Q1-K1-B10
<400> 29662

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tcttaaatta gctggcgaac aagaaaagct ggtgagtgaag agatggcttc cggagctgag 180
aaatgcagtt caagaagctc ggaggtgttt tgatgactgc cagcgtgtta ggggcttggg 240
tgatgagtgg tacgagcagc cagcagccac aattgtcgat tgggtaacga tagatggaca 300
gagcgtgggt gcctggatca acctcgtgaa gcaactccac atggagatct ccagacggac 360
gctggcaatg tcattctgtg gagacgactg aagcaaccag ctgtgacca gctgtggctt 420
t 421

<210> 29663
<211> 390
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-001-Q1-K1-B12
<400> 29663

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tgctaggcta gctaggcggc atcgggtggac ggcgggggcct tcaggccttg tgctcggcgt 180
 cgcaccctct cgcgcgcgaa accgagcaat agtgacaata aaacgcccgg gctagctgag 240
 cctgtatgtt cgacctgaat aatgaagcag ctgtgtgata tgcattgttg ttcgacacaa 300
 cgtgtacgct tgcacatcgc ttgtacttta cgattgcatt gcatgcaaca agggttttaa 360
 ggctgaatca ataaacgggtg tgtaggcaaa 390

<210> 29664
 <211> 377
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-B2

<400> 29664

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 aaatgtccac tcttgagggtt aaacatgaca tctacaaaaa cccctttgtt tgggtttctt 180
 caaaatttgc actaggccaa catcatgagg ttttttattt tcagtatcct tattgtgcgg 240
 atgcaccatt tttttgttat cacaccttgc acaagctcgg caattgtctg aataatttct 300
 gtgtctaatt atggaactgt ttttcagtaa caaactgata tgattacaac aattcatctt 360
 tgggaaaatt tccctgc 377

<210> 29665
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-B3

<400> 29665

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 atgatttcga ctttgtcact gcagaagatg tccagaagag caggatcttc tatatcctat 180
 ggtccccatc ctccgccaaag gtgaagagca agatgcttta tgcaagctca aacaaaaaat 240
 tcaagagtgg gctcaatggc attcaagtgg aactgcaggc tactgatgca agtgaatatca 300

gccttgatga gatcaaggat cgggctcgct aggcacatg atcatgcac atggactcgg 360
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 attgcgg 427

<210> 29666
 <211> 331
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-B4

<400> 29666

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 cctgacggag ctacaccttc tgtgcaagtt cagcgtctct aacaatcact tgggtggggca 180
 tatcccaatc ggagggcagt tctgacgtt cttcaactcg agctttgagg gtaatcctgc 240
 tctgtgccga tcacgtgcct gcatccacct gattttgtcc agtgcaactt ctaatgacac 300
 ggacataaag tacgagccac gtatgacgaa c 331

<210> 29667
 <211> 74
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-B5

<400> 29667

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 agtgagagcc atta 74

<210> 29668
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-B6

<400> 29668

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cccgcatteg tctatggcgg ctgcaactggg cgccgtgctc cggcgggctgc atacggcggc 120
ggcgcagccc cctcgctga cgaaattcgc gctgcacccg cccaaattca atttctcaga 180
gtatacagcc cagcagttga tagcaaaatc cgatcagtgg gcggtgaaaa gggttatattt 240
ggacgacgac atgttgggat aatgtcagct gaatcagtag gaaactacgg agtccggata 300
ctctttgatg acttgacaa gacagggatc ttcacatggg attacttgca ccatctcggg 360
tcagacaaat tcagtctgat gagaaattac atcagaactt tgagaaagca tggcttta 418

<210> 29669
<211> 307
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-B7

<400> 29669

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ctatgattgc gactttgtca ctgcagaaga tgaccataac agcatgatct tgtatatact 180
atgggtcccca ttcttcgcca atgttaagag caagaatctt tattcaagct caaaccaata 240
attccagaat gtgctcaaat ggcattcatg tagaacttca tgctactgat gcatgtgaaa 300
tcagtct 307

<210> 29670
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-H12

<400> 29670

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ggtgggtcta atcgtgagct aaggcaccga attcatgctg gactcatcaa ccgatggaac 120
tgctgcaatg gccaatgctt atgttgaaaa acgagcctta gcttgcacct gggaagctat 180
cgagaaccag actccgatgt cggccttaga accctatgag tctgtcccag aataggccga 240
tgcttacgct gtatattagg ctggtgaaac tgctacatgc gaggatgtac cggtcaaata 300

tcagtatggt cacgacgagc cggaagcc

328

<210> 29671
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-H3

<400> 29671

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gacgcatgta accctgcagc tagatataac cagacacact cagacagaga gatacataga 120
gaagaggaag aagatatcag atgaggaaga ccatccatgt gctattggag aagctgtaga 180
ctaaactggc tgtgactggt atatactatt aaatagtgtc gatcacatta tagattcaaa 240
cggacaacat atggaccacc tctacatgat agcacttggt aaaagagaca ctacgaacgt 300
acgttaatcc aagatggaca ttagtgaaat tatatggcac agaattcatg acctcttacc 360
agctaataat gattcatcat ctagtgcagt gaatggaa 398

<210> 29672
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-H4

<400> 29672

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gaacgaagat gttggcgggtg ttcagcgggc aggtggtgga ggtgccggcg gagctggtgg 180
cggcgggcag ccggacgccg tcgcccaga cgaaggcgtc gcagctggtg gggcgcttec 240
tggccgcgtc cgagccggcc gtgtccgtgc agctcggcga ccacggccac ctgcctact 300
cccacaccaa ccaggcgtc ctccgccccg ggtcgcttcg ggccaaggac gaggtgttct 360
gcctgttcga gggggtgctg gacaacctgg gtcgtctgag ccagcagcac gggctgtcaa 420
gcaagggcgc c 431

<210> 29673
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-060-Q1-K1-H5

 <400> 29673

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 gtccgagatg ccgtttgaga aggaggagct gctcaacgca gccgtccgcc gcgtggacgc 180
 gctggaagcc gagctgatct ccacgaagaa ggccctttac gatgctctga tgcgacagga 240
 tgagctgctc gcgtacattg acaggcagga gctgatcaag ttccgtaaaa agaagttctg 300
 cttctaagat ctgacatgg agcagctggt catgtccgga gccgttcgtg tatattgttg 360
 gatcgcggt agtacggtga atgatgtaat gtgtccatct gtacaagtgt gtaactgaac 420
 ggtgtaagta tagta 435

<210> 29674
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-060-Q1-K1-H7

 <400> 29674

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 ttatgagagg tgcttgcttg ttaaaggatg gaaggctggg gccagctgga gctttcctcg 120
 tggaaagagg aataaagatg aggaagacca cacatgtgct gttagagaag ttctagagga 180
 aactgggtgt gatgtttcta gactattaaa tctggatgat tacattgaag tttcaattgg 240
 acaacaaagg gttcggctct acatcataac aggggttaaa agagacactg tgtttgcacc 300
 tcaaaccaag aaggaaatta gtgaaatttc atggcacaga attgatgacc tcttaccagc 360
 tagtgatgat gcagtatctc gtgcagtga tggaaatgaag ctgtacatgg ttgcgccatt 420
 tttgacgggt ctta 434

<210> 29675
 <211> 428

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-060-Q1-K1-H8
 <400> 29675
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 tcgtgaaact ggcctgtgat cacgcggagc gagctgtagg cgctaccag aggtgttggg 180
 ggctattcta cgaactgggt caccgcatag cagagcatgg tgcttacgga cgacttcttc 240
 ggcatgacga gctccgaact gctatcgaa tacgggttcc accaagagac tcagctgtca 300
 gtcaactgag gctagcttgc tgcgtactag gcgaacccga tatatgtcaa tatgttcac 360
 acggccgagc tgtttggttg ctagcaggag agtctaagac agctcgctcg ctactgcagc 420
 tctggctc 428

<210> 29676
 <211> 420
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-060-Q1-K1-H11
 <400> 29676
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 ggttcacct tcagcatctc ataacattga gaaccggatc tcctgggcgt tctgtgggta 120
 tttggaagct gtttcagtgc tgccacaatt acgcttgatg cagaatacta agatagttga 180
 accgtttaca gtcactatg tatctgcatt gggggttgca aggtttctta gctgcgcca 240
 ctgggttcta caggttttgg atacgcgtgt gcgtctgctg acagctcttg gctatggact 300
 gtggccgtct atggctgctg tttcagaaat cgtgcagaca ttcaccttg cagatttctg 360
 ctactactat gtgaagagcc tggttggtgg gcagctggtg ctacggcatt cctcaggggt 420

<210> 29677
 <211> 262
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-060-Q1-K1-F6

<400> 29677
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tctctaccgg cagcgtgcat actagctcat catgcatcgg tcgcacactt aatttaacgg 120
attagcgtgt ggatctgtca accccatggc gcctctgctt gattcgtgtt tcacctgtta 180
tgttctgaga ttcataataa tgctatgaga actgaaattc cgttttcatt cttcttaaat 240
ctttgacctc tgcggttggt cc 262

<210> 29678
<211> 223
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-F7

<400> 29678
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gaggagttat ggttgctgct agttattgcc gagtttggtta ctggcgatag atttatgtta 120
tgctgttttag gcacttggtc ctcggctgca gtatgttgct gtttaagggtg tgaaacttct 180
gttatcatta ctgaactggt ttataatgtg acgtcaattt act 223

<210> 29679
<211> 239
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-F9

<400> 29679
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caagctcgcc tgatggggag tgatagcaag ccacatgatt ggcgagacag attacaccat 120
cattgctgac cttacaattg gtcagtctac aggccaaatc atgacgggag ctccttgtct 180
ggctgagcgc ctggccttat acaatcagct gctcatgac gaggaagagc tatgcgttt 239

<210> 29680
<211> 297
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-G1

<400> 29680

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tgcgagggct cttatcgatc agtggttagca tatcgacacg gaagctactc ttgacatggc 120
acaaggacta cttcaacgcg ccgaactgct acccgagaa tgacgctgac atcgtcaaga 180
tgctcaaggg cccggtgttg gtcaacggca gttacatcgg gcgatactgc tcctacaagg 240
gctactcaat atgctgctgc ctctaaaaca tctccaagac gttcaccgag accaaat 297

<210> 29681

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-G10

<400> 29681

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cagtccgaag aacgggcgtc ttctctgtgat gtcttcttgt ctgccacgc ctagtttctc 120
tgtcgattcc tattcgtcgt ctcttcaggg ctggtgctca ctgctgcgcc gttctgttaa 180
ccgaaacaag aactctgtgt attcctgtac cgagctgtgc atgttttttt ctttccatcg 240
tggaagaattt aagttattat ccgtttgctg c 271

<210> 29682

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-G11

<400> 29682

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tgcccgtgcg ccaccgtcct ccccgctcgcg gcatcatctc gactcgaggc gatgcagatc 120
ggaggtggat ttggttgagc agcttgcgag gcatttctct aggcctctga ccaaggaaca 180
aatggaggca attatggagc tggcaactca ggggaaggaa aaggaaggga tcaagaagaa 240
gggcagcaag gtgacacctc tcaaggctcc tatcatggag gctgctgaaa tgctctgagt 300

tcaattatga gatgtgtggg tagttctagt gcatcatgtt atgtccccgg tgtacttgcc 360
tatgagtcgc ccaggatctt ttgttggtg ctttgtgtag caggttggtg tctgggcagt 420
ggtg 424

<210> 29683
<211> 433
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-060-Q1-K1-G12
<400> 29683

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gctctcggtg tccgtcagca atgcgagcga ccaggagagg gagtgggtcg aagaagacga 120
gccaggcgta tatatcaciaa tccgggcttt acctgggtggg atcagagagc ttcgccgcgt 180
tcggttcagc cgggagaagt tcagcgagat gcatgccagg ctgtgggtggg aagagaaccg 240
agcgaggata cacgaacaat acctctgaga agagacgccc gacaccatca gcagcacgag 300
cacatgaata gagctggcac taacacattc acatgcattt ccagcttcat acgatgtttt 360
gctaacctaa aaggtccggt ttccggtatt ttacatttcg ttcagtctca cgtgtggtgg 420
tggtgggggtg gga 433

<210> 29684
<211> 442
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-060-Q1-K1-G2
<400> 29684

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ggtggccttg tatcaaacct accgggtgat gtgccacgtg ttgatgggca gctggcagtt 120
gcaagggcat ttggagaccg gagcttgaag aagcacctca gctctgatcc atatgtggtc 180
gagcaaacta tcgatgaaaa tactgagttt ttaattctag caagtgatgg cttgtggaag 240
gtgatgtcca accaggaggc tgtcgacgag atcaaggatt gcaaggacgc gcatgcagct 300
gccaaagacc tgacggagca ggccgtgaac cggaagagca aagacgacat ttcagttatc 360

gtagtcaagt tcattgtgcta gcacattgtc aggttaaagt gtctcccgat tgtataccgt 420
gttaaattat cttttaagtc tt 442

<210> 29685
<211> 209
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-G3

<400> 29685

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caagggggga ttgtatcaa acctaccgac ttatgttcca catctagatt gtcacctacc 120
taatgcaagg tcatttcaac acctgagctt gaataatcac ctcatctgtg atctatattt 180
tgtccacccc actattaatg accatacta 209

<210> 29686
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-G5

<400> 29686

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ggaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaata aaaaaaatag gctttacctt ttaaaatata aaaacttact 180
aacccttcct ttcaactttt taattttcat atagattcat ctaaatctaa tcaattgacc 240
agtatttaaa aacgttatac ctgtaaaacc tctggtatta ccaaattaaa accatttgca 300
aaaaattccc ttttctcaag ttgtctatat atcataaaga cccttaccaa ttgcttttta 360
aaaaatttta ccacctaata 380

<210> 29687
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-G6

<400> 29687

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attatttgat aactaaccga aatttgatat tccttgatca taatgactat catcaatcta 120

tacggatacc tagatccaag aactataaaa ccctctccaa catacctcct catgggtcct 180

ttcaactgat gacatacata cttcgtcttc aaatcatacc tattatctgg ttctaaaccc 240

atattgtaac ccagtttatt acccgataaa acctcatttt aaatgctccg aatcatttct 300

taaaaagaat cacattacct aatgttaaca ttgaaatgac tgataattta taggcctcta 360

tccccaatat aagatcttta cacatttctg cttcatatgc t 401

<210> 29688

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-G8

<400> 29688

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aaggcagagc aactaaagga aaagcgatag accttgatga tatcaaattt catcagtgtg 120

tacgtttagc tagattcgag aatgatagaa ctatatcggt catacctcct gatggatctt 180

ttgatctaata gacatacagg cttagcactc aggtaaaacc tcttatctgg gtcgaagcac 240

agattgagaa acattctaga agccgtatag aactcatggt gaaggcaagg agtcagttca 300

aggaaagaag cacagcaaca aatgttgaaa ttgaagtgcc tgttccttca gatgccacaa 360

acccaaatat aagaacttca atgggttctg ctgcatatgc tcctgagaga gatgcaatgg 420

tctggaaagt aaaatcat 438

<210> 29689

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-G9

<400> 29689

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gttagtggtt acgttttcgc tagaggaaga aaagggggtt ccttctcttt ttgcctcctt 120
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 tttgggagaa aggttcaacg ttttggtgca ggataaaatg ggcttgctat cctccagtgc 240
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<210> 29690
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-F5

<400> 29690

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 gagctgtgca agaacatcaa tcctgatgag gccgttgctt atggtgctgc cgtccaggcc 240
 gctatcctca gtggtgaggg caacgagaag gtgcaggacc tgcttctgct ggacgtcact 300
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 accaccattc ccaccaagaa agagcaagtg ttctccacct actcggacaa ccagcctggt 420
 gtgttgatcc aggtg 435

<210> 29691
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-H1

<400> 29691

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 caagtctttg gcaagcagat gggtttgagt gatcaggaca ttgttgccct ctctggtggc 180
 cacaccttgg gaaggtgcca caaagagcgg tctggttttg agggggcctg gactacgaac 240
 cctttggtct ttgacaactc ttacttcaag gaacttctga gtggcgacaa ggagggtctt 300

cttcagctcc caagtgacaa agccctgctg agcgaccctg ttttccgccc ttttgtggag 360
 aaatatgctg cagatgagaa ggcattcttt gatgactaca aagaggccca cctcaagctc 420
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<210> 29692
 <211> 431
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-060-Q1-K1-H10
 <400> 29692

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 ttcaactcgt tcttgaaga cgaagaaaga gcgctcgta cgcacaccggc ttcagatggt 180
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 gacatggtga gcaactggcg cggcctcacc accgcgagca ctacgcgga cagagcacga 360
 agtcggaata gtagcgttgt gtgcaacatt ggctctttgt ccgcagggcg cggcaatggc 420
 gccacgatcg c 431

<210> 29693
 <211> 393
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-060-Q1-K1-D7
 <400> 29693

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 acctgtctt gtgtcctcat cgccttcaca gctactagcg acggctgatt tgggttctgt 240
 tgcattcccc tgggtctgaa tgtagccac tttctcctgg gctgcactgt tttctttag 300
 tatgttgact gttgagtgtc gttggttgtg gggaaacat gtttaggact aggttgagaa 360

tctcaatttt acgaggggaat ttcaattttc ttt

393

<210> 29694
<211> 160
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-D8

<400> 29694

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ttttcacgca ctgcttgacc cactgcaatg tcttttactt 160

<210> 29695
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-D9

<400> 29695

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gagatgtcgg acgaggagca ccagttcgag tccaaggccg acgccggcgc ctccaagacc 120
taccgcgagc aggccggcac catccgcaag aacgggtaca tcgtcatcaa gggacgtccc 180
tgcaagggtg ttgaggtgtc cacttccaag actgggaagc atgggcatgc caagtgccac 240
tttgttgga ttgacgtttt cactggaaag aagcttgagg atattgttcc ttcttctcac 300
aactgtgatg ttccccatgt tgatcgcaat gactatcagc tgattgacat cactgaagat 360
ggatttgtga gccttttgac tgacagtggc aacactaagg atgacctcag gcttccgact 420
gatgaag 427

<210> 29696
<211> 110
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-E10

<400> 29696

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<210> 29697
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-E11

<400> 29697

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 ttcgtgatct ttccaatctg gtaaaaccgg aggatatgat cacctcggaa catctcgtga 180
 cacttcttgc aattgttccc aagtactccc aaaaagactg gttgtcaagc tatgagaaaa 240
 ttgacacatt cgtggtacct aggtcatcta aaaagctcta tgaagacaat gaatatgctc 300
 tctacactgt aacactgttt gctaagggtg ttgacaattt taagggtcgt gctcgcgaga 360
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 agatg 425

<210> 29698
 <211> 318
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-E12

<400> 29698

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 acgagctggt aattctcaaa tctcacggtc tgagcgggtc tgttcgcca ttggcaacac 180
 tttcagggtt agtcagggtg caataagctg tgtcctttgg gagcacagg ctgtacagga 240
 tacttggtt cgggatcagt tctaacgcta cctgaattca tgggtgaaaa aaaaaaaaaa 300
 agggccggcc gttttaaa 318

<210> 29699
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-E2

<400> 29699

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cgtgcatact tacactgata cgtgggctgt aaagcgccgt gaactcccat cctatggctg 120
acagagccag actacaaggt cgcctgagac cgacattaac ccatggcgca caatccggag 180
gacgcgacca agaccaagcc ctcaaaccga ttgccataga cgaaacccaa caatacctag 240
ccaccaagg gcagcacctg agtaccacgc gtccttgac caacacggca aaagccccta 300
ctacaatgcg gtcgtctgcc cttccaagga gccccggacg cgcccgccag tcatgctgctg 360
tacaggcgac tgaactgcc aagggccctga tacacgcacg actgacacgc gt 412

<210> 29700
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-E3

<400> 29700

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aaccatgaca ccagaccata tgtatatgaa aggttcccc ggtacactct ttattcatcc 180
ttgaacacaa aatctagacg ccgcctctca ccatcggttg taaaaccaat gagccagaca 240
tggtctcaca atgccaacta aaaatcacia tatctgagta cagttatgat tatcatattc 300
tattagccca tatttccaag aagtcgctcc actgcagcat gaacatttcc agcggtagcg 360
gccaaagctc ggatgttctc ttgtgtgtca aagaaaccca tttcttgag ctgagctaata 420
tgtgtggcgt ac 432

<210> 29701
<211> 255
<212> DNA
<213> Zea mays

<210> 29704
 <211> 438
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 <213> Zea mays

 <223> Clone ID: LIB3067-060-Q1-K1-E8

 <400> 29704

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 agcaaagtct gatgtatatt cttttggggg tgttcttttg gagctgatca caggaagaaa 180
 acctgttgat gcttctcagc cattgggaga tgaaagtctg gttgaatggg tgagttcatc 240
 acttcatttt atataataag tgaccttact gcatgtcact aatgttaggt tctaaattat 300
 gcgtaacttt tctgtttttt aaccataacc agtaaccata gtcattgagat tgagatccac 360
 taataaatga catgattatt tcgtgatata ccaatggatg tgtctagact tcttcaagct 420
 tcaactgttg atttcctg 438

<210> 29705
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-060-Q1-K1-E9

 <400> 29705

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 aggagtgcac agacttgggc gtgagaaaat tcaatgtgaa cactgagggt cggaacagct 180
 acctggcgtc cctcagaaag ccagaaaagg acttgattca ggtgatggcg tctgctaaag 240
 aggcaatgaa agctgttgta gcagagaagc tgcgcctggt tggatcatgt gggaaagcct 300
 gagcgaagta cttgcgttgc gccggcaaca tgcagtacaa gaccgactgc atcatcgggt 360
 tcgtgatgct gctgctactg tgcagttgct tacggatata gctcattgcg ttgaacagct 420
 gaagtg 426

<210> 29706
 <211> 387
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-060-Q1-K1-F1

 <400> 29706

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 ctgatcgta gactggtgtg atgatagatg cctataagaa gaaagtataa gaggaactaa 180
 ggaaggtttg caatgaagta ttgtcagtca ttgctattca ttgccttccc ttggccagta 240
 cgggtgaaaa tatcgtattc ttttataaga tgaaaggatga ctactaccgt tacttggtg 300
 aatctagcac ttgaactgaa aagaaagctg cctctgatca gtcacttatg gcctatcagc 360
 atgccatggt tgcgcctcc agtgagc 387

<210> 29707
 <211> 231
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-060-Q1-K1-F10

 <400> 29707

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 tggtgcagcg ttgttggtta gaatgacctt tatttgactg gtattctgtt acggtggctt 180
 tgcaaagctg tttgtttggt ttaatgtctc ggaataatat gaattggctg c 231

<210> 29708
 <211> 314
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-060-Q1-K1-F12

 <400> 29708

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tcgccacaac cgtaaaggcg gccaacataa aggccaagtc caactggccg gccttttttg 180
ccaagttcct gaaaaacccc aacgtcaagg acctaatect ttccgtggaa cctggtgccg 240
aacctgttca agtggttggt gccgaacctg ctgggggggc tccggttggt gttgccccgg 300
tttgtaaggg aaaa 314

<210> 29709
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-F3

<400> 29709

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ctacgcgccc agatgcaacc tccctccgtc gtcagctgca cttgcacttg ctgttgacaa 180
ggcagtcgta gccaacagac aggaacattt caggcgaagg atcaggatgt tctccggata 240
tgaccgcgtc tactcttcga acgcggaaaa gtacttcaac gatgcaggtg tgcagacggc 300
attccatgcg aatgccagtg gagctcggaa atgggaagtt tgcagtgatt caattttgag 360
gtcatacaat ttctcgggtc tttctgtctt accaatctac tctaagctca tcaaagcaag 420
actgagagtg tg 432

<210> 29710
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-D6

<400> 29710

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tcgtcaacgc cggcggcatc ttcgagacca ccgtcttccc gcgccagtac gcgttcgaga 120
tgtctccgt catctacaag gactggaact tcacagagca ggctctccct gacgacctaa 180
tcaagagagg catggcggtc gcagaccctg cgagcccgtg caaggtacgg ctgctggtgg 240
aggactaccc gtacgcgtcg gacgggctgg ccatctggca cgccatcgag cagtgggtga 300

cggagtacct cgccgtctac taccccaacg acggcgtgct gcgggaggac gtggagctgc 360
aggcgtggtg gaaggaggcg cgcgaggctg ggcacgccga ccttaaagac gcgccctggt 420
ggcccaagat gcaga 435

<210> 29711
<211> 317
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-B8

<400> 29711

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gaatgatctt ccttcttaag aactaccgt cgatactacc actaccagct gacctacacg 120
cagaagcgac caaatgacta atatatagat caatggcata ttaatgcagt attcaactct 180
tataccaata catctatact accacccatg atacctattc aggagacaat agcatcaaca 240
gcaaatatca aactgactct tagtagatca ccctaccga aacttgcac attgcaagca 300
gatgaggatt catagtt 317

<210> 29712
<211> 144
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-B9

<400> 29712

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ggatattatt acctctatac aaacttcaga tcgttcaaca atatatctta taatcttcat 120
attgaaggga ttcaatatct cttt 144

<210> 29713
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-C10

<400> 29713

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 gacccgatcg ggctccgctc cttctccggc gccgcgcaca ccgcgtcgca cgcgccgtcc 180
 atggggggcca cctgtttcgg cggggtcatg gacacccggt tcccgaagcg ccggtcggggc 240
 ttgcgcaacc gccggaagag ggctagcttg cgcgccaaag gtccgtacta ctgggtgaag 300
 tgcaagcctg acgagcccat accagttagt cagccgaacc aaggagcgt acgagggagg 360
 aaggtgaaga agcggatcaa gcaacgcaag gactttatca tggctgagaa gaagaagcgc 420
 agagctc 427

<210> 29714
 <211> 346
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-060-Q1-K1-C11
 <400> 29714

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 taggttaata ggaacaaagg ttcaatcaag agaaagttct gtatttggtt gtgttgctta 180
 gcagggtgtt tgcattgcgc cagtgtatc atgtgtaac taatttagta attgttggtt 240
 catagacaaa acatgatttg aagaatcttg ataggttttg ttgttccaac cgagggatga 300
 atcattgtt gtctgtatc gagtgttaca ggctttctgg tttgct 346

<210> 29715
 <211> 132
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-060-Q1-K1-C12
 <400> 29715

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 gggagaatta aaaataattt taaaccttaa taaattaaaa aaaattttta aaaaactcta 120
 acttaataaa aa 132

<210> 29716
 <211> 393
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-C3

<400> 29716

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 cgactatgca tgatgtgaac aacatcgagg aagagatgcg catgaagcaa gtcacgctg 180
 cccaagaggc gtacgaggag gacgacgaga tgccgggagg agcccagaga gtgcagtgcg 240
 cgcaacagta agcagactat catcaaggca attgtgaggg gtgggtgccct taaagcatgg 300
 gagtgatctc tgtgtttgct gtcgtcgagc tgtgaaaaat gaagctgaat cgacctctca 360
 tgcgggcgaat gtatcccttt tttgctgcaa cat 393

<210> 29717
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-C4

<400> 29717

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 acacggtggc gctgaggctg gcgcctgctg cgtcggcgcc tgatgacccc ggatccgcgc 180
 cgtccggatc ctgctgcaac gcggtgcacg ccatcgggaa gcagagcccc atgtgcctat 240
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 tcatacacia acgctgcaac catgtcaaac gaccggttg ctacaagtgc ggagattaca 360
 ccctgccatg agcggcggtg agtacttcag gccggatttg ctgcatggca tgcc 414

<210> 29718
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-C5

<400> 29718

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ttaactttga ggaaagcagt atccagtggg catcccgctg ggacacctac ctccgcacgc 180
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aggaccagga ggaggcccaa gaagagtctg gatggaagct tctccatggc gatgtgttca 360
agccttctgc caatgccgac ctgctgtgcg tgtacgtggg cacaggtgta cagttctttg 420
ggatgctgct ggctc 434

<210> 29719

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-C6

<400> 29719

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caactccgat ggaaacatcc ttgtcgagcg attccatggg gttcccgcgg aggagaggct 180
ccactggcgc tccttcctgg tgaagctcgg atccgagaac ctcaaagggt ccaagaacga 240
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ctgcctctac attgttgga aggatgaata tgatgagctt gctttggctg aggtgatctt 360
tgcaattaca tcagcagtca aggatgtttg tgcgaaacct cctaccgagc gcctctttct 420
tgacaaatac gggagg 436

<210> 29720

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-C7

<400> 29720

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gacttccacc aaggccttca tccaagctga cagacatgga gatagatgaa tgcgaggaga 120

cgactatgca tgatgtgaac aacatcgagg aagagatgcg caggaagcaa gctcacgctg 180

cccaggaggc gtacgaggag gacgacgaga tgccggggcg agcccagaga gtgcagtgcg 240

cgcaacagta agcagactat catcaaggca attgggaggg gtggtgccct taaagcatgg 300

gagtgatctc tggttttgct gtcgccgagc tgggaaatag gaagctgaat cgacctcgca 360

agcggggaat gtatcctttt ttgctgcaac ataaaaaatg ctaccaagc atagctgggt 420

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<210> 29721

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-C8

<400> 29721

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ccggacgagc tgtaccgccc catcatgaat gtcggggcgcc caagcatccc gttatccccc 180

gtcctggagc aatggaatca agaaggccat accgccaaga agttcgtcat gcacgccatc 240

gtcaagaagc tcgtcggcct ccgccgcttc gcccacgcac tcgagctgtc gttctggatg 300

accgaccgca tgcacctcca cctttcggtc ggtgacgtcg cgtaccggct ggacctaatc 360

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-C9

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 aagagtgcct tcagctagac cagatatggg agctgatcca ctaatgtcac accaaaacgg 180
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 acaaattcta c 251

<210> 29723
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-D10

<400> 29723

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 gtcccca 428

<210> 29724
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-D11

<400> 29724

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 tgcgattta ctctgctgct tatctgctgc tggtttcctt gtgcagttaa accggtaaag 180
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 atcctctgcc ccagtgggc agctgtgggt gagtgtgcc aagaacctaa ctacatgggtg 420
 ggga 424

<210> 29725
 <211> 76
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-D12

<400> 29725

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 agacattgct tgtcct 76

<210> 29726
 <211> 296
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-D2

<400> 29726

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 gcgacaacac cggagtctac gagatcctct cgttgcccc gtacgcgttc caggacgatc 240
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<210> 29727
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-B6

<400> 29727

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gtgaccggcg ggaggaacac cgggcgtgta ggagtgatca agaacaggga gaagcacaag 240
ggcggccttcg ataccatcca cgtctaggac tccatggggc accaattcgc caccgcgatg 300
ggcaacgtgt tcaccatctg caagggcaac aagccttggg tgagcctgac caaaggcctc 360
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<210> 29728
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-D4

<400> 29728

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gtcgccacgc gccccaaagac caagggcaag gacggggacg gaggcaacgg aggggatgac 180
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atattgcccg tcaagttccc gcagttcttc acgggcaagc ggaggccttg gagggcgttt 360
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gctgattcaa cgtttttcag tata 444

<210> 29729
<211> 149
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-D5

<400> 29729

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agacattcac caatcctcaa aatccatact tacatacata gatatagatg aatacaaaaa 120
atacaactta tgcattgatc gaacaacat 149

<210> 29730
<211> 244
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-H8

<400> 29730

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cgggctatat cagctggtaa ttcttgtggg tttttgcgta cgtgtcctcc aaattacaag 120
cccccttttt gttgaaattg tcgtctggta gtcagtaaac ccgaataaaa aatgtatata 180
tggtttttga atttggaag tgaacaaaaa cttttgttc aaaaaaaaaa acacctaaac 240
aatt 244

<210> 29731
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-H9

<400> 29731

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accgaaggtc ggaagaaaga cggagtgcag attcctgcta gcgacaaagt ttacgagtat 120
atcctcttcc ggggaactga tatcaaggat ttgcaagtta agtcatcacc accacagccg 180
ccaccaccac aagcagcttc cctgcacaat gatcctgcc aatacagtc acattattct 240
caacctgcat caacgtcatc aagtttgctc tcagctgggg gtgcagtttt accagacttt 300
agctcccagg cagttcaata tgggcttcag aggccaacct ttcagagtaa cttgctctc 360
taccaaccag ggaatactcc gtggggctct tcagtggcac ctccagcagg aaatgctcca 420
tggggctctt 430

<210> 29732
<211> 440
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-060-Q1-K1-A1

<400> 29732

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cctctatccg gactcgttcc cgcttgagac cccgccctct aaggaggagg acgcggcagc 180
gcgacagact gatgaggcgg tggcaccggc tgtccccttg agggaggaga cggagacaga 240
gagggaggcg tggcgactgc tgcggagggc ggctcgtcagc tactgcggcg agcccgtggg 300
gacggtggca gcggagaacc ccgagtgcac ggagatgctc aactacgacc aggtcttcat 360
cagggacttc gtgccctncc tgctcgcctt tctcatgcgc ggtgagaccg agatcgttcc 420
gaaccttctt ctttacaccc 440

<210> 29733

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-A10

<400> 29733

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ctgttgcgag tgttggtggc atgtccatgt tcaataggat cttcgggaag cccaaggagc 180
aggccaactc caatgctttg gccactctgg acaagttaaa tgagacactt gatatgctgg 240
agaagaaaga aaagtgctg gagaaaaaag caaacgctga gcttgagaga gccaaaggagt 300
tctcgaaagc aaagaataaa agagcggcta tccaatcctt gaagaggaaa aaactttatg 360
agcaacaaat tgagcagctt ggaaattttc agttgagaat ccatgatcag atgatcatgt 420
tagaagca 428

<210> 29734

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-A11

<400> 29734

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aatttgaact tcagcatgga aatgtggaca cacagaagga tgttctgaaa agatgtgttg 120
cagcagaacc aaagcatggt gaaaaatggc aagcaatatc caagtctgtt gaaaactcac 180
acctgcctgt tgaggctctt ctaaagaaaag ctgttgtggt gcttgatgta gaagaaaatg 240
ccaatctggc aggagcctag actcactctt ttfacaaagga gtttggtgaa tgtgatttgt 300
actaccatgc ttaatttctg atcaattcaa tatgaggggac tttacctttt aatatttcat 360
ctttattggt gagttaatat gtgatcatca gtacttgaac ttgcatagca t 411

<210> 29735

<211> 373

<212> DNA

<213> Zea mays

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<400> 29735

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gcaaatacca tacatgtaca tatagaaagt tgcaaggttt tcacaacaca gcacaataca 120
atgcactgga gttcttaagc taaccattac aatcaggcag ctaatcattg gtgcagtttc 180
agcacatata taattccgct tccgcatacc gcaggaaact atatgcatgc atcgacatta 240
tttggggggc atcggaccgg agcatctcat atccattcag accgaccgtg ctcgttaggg 300
ttcgccatgt ccttgttcag ctggtccatg taagcctcct gatggtagcg cgtcttcaag 360
gaaagatcat tgc 373

<210> 29736

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-A3

<400> 29736

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gggtgctagc aagagtgcaa caatggccac cgctctgtcc ttcaaggcct tggcactggc 120

cgcgctcttc tccgtgggtca gcgtcacctc tggcgctctc gccgagcaac aggtcaagcg 180
 caacgccacc accgactagc aggacatata cttgtttgtcc tacagcagtg gctgggtgcc 240
 ggccaaggcc acctgggtacg gcgccccccac cggcgccggc cctgtcgaca acagtagtgc 300
 ataccgggttc aagggcacca accagtaccc gttctagtcc atgacgtgct gtggctacta 360
 gccca 365

<210> 29737
 <211> 344
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-A4

<400> 29737

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 gcaattccat ccacgtacat atatacagtc ccacaagctg tcagatacac ctcaatacac 120
 tccacctaac ttcttacgct aacctttttca atcagctatt taacgcattcc cccaggacac 180
 tcccccaatac actccccctt acgcataccc aaagacacta tatccatgca tcgacattat 240
 tcctctcaat aaaatcagag ccaacaatct ccgtccaaac ctacacatct ccataaaaaac 300
 cttcataccc tttaacaact gggccataca cgctctctca tggt 344

<210> 29738
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-A6

<400> 29738

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 atgcactgga gttcttaagc taaccattac aatcaggcag ctaatcattg gtgcagtttc 180
 agcacatata tagttccgct tccgcatacc gcaggaaact atatgcatgc atcgacatta 240
 tttggggggc atcggaccgg agcatctcat atccatccag accgaccgtg ctcgtcaggg 300
 tccgcatgt cctcgttcag ctggtccatg taggcctgct gatggtaccg tgtctgcagg 360

gaaggatcat tgccatggta ctgaaggagt ccctggaacg gaccaagaac acta 414

<210> 29739
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-A7

<400> 29739

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tgctgtcagt ctctggagca tttaggtggt ctggatcaat ggaagggttg tgtcctagcc 180
agccggcaaa gatgagctgc tgatggtaat gatgatgata agaggccact gctaccctac 240
tacgtaccct cctctttgtg tgctgccatc cgccccggtt agacgatcga ggagagaata 300
acgcagagct ctctgtctcc ggctgtctt ctgccgtccc ggccgtttta tttactagt 360
tgttctcct atatgtttag cagcagcagg tgtattgtgc gggtatgtaa tgggattgca 420
actatattgg gtgtaaaacc 440

<210> 29740
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-A8

<400> 29740

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gcgggtggcgg cggcggatct ggccggcggg cgacgagcgg gcgttgcccc gtggacgcgc 120
tgaagctggg cgtgtgcgcc aacttgctga acgggctgat caacgcgacc ctggggacgc 180
cgcccaggac gccgtgctgc acgtgatcc aggggctggc ggacctggag gcggcggtgt 240
gcctctgcac cgctctcagg gccaacgtcc tgggcatcaa cctcaacctg cccatcaacc 300
tcagcatgct cgtcaactac tgcggcaggg gcgttccttc gggcttacag tgcttctgac 360
tatcacacgc ccatgatcg atcgatctgg atgctaaata atttctcaa gctgctagta 420
tacgtacgta cg 432

<210> 29741
<211> 68
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-A9

<400> 29741

acgacacatc agttttatac gaccacttat attaccgatg actctctttt aaaaatggag 60

agatatat 68

<210> 29742
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-B1

<400> 29742

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gagggagggg aaggagcgcg agatggacaa ggccaataag ctgagcaccg gagcgtggga 120

gaaggctacc aagagcagga gccacgggtt cacggcgctg atcgtagcgg tggactacgc 180

gttactgctc gtcttcgacg gcttgctcgt ctacctcgtc aggtcacgga tctctactc 240

cgcgcgggc tccgcctaga cggggccgcg ttcgtggatc tctctactat ctttcacgtt 300

ttttcggagt ccatggctgc tggagcaccg ggatctt 337

<210> 29743
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-B10

<400> 29743

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caccaagggt tctgaccacc tgaggcaagt ctttggaag cagatgggtt tgagtgatca 180

ggacattggt gccctctctg gtggccacac cttgggaagg tgccacaaag agcgggtctgg 240

ttttgagggg gcctggacta cgaacccttt ggtctttgac aactcttact tcaaggaact 300
tctgagtggc gacaaggagg gtcttcttca gctcccaagt gacaaagccc tgctgagcga 360
ccctgtcttc cgccctcttg tggagaaata tgctgcagat gagaaagcat tctttgatga 420
cta 423

<210> 29744
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-B11

<400> 29744

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cgctgcacgc ccgcggccga tgacggcgac ggtgacggcg ctgcggtca agtgtacccc 120
ggctccgacc gtccgagctc catctgggcg cacgctattc tcagcacggt cgacagctcc 180
gtccgacgcc gtcgctaccg gcggtagacg gagggcggcg gcgacgtcta cgacgggaac 240
gaccctgagt tcgccctgcy ccggcggtgc gtcaccgcgt tcttgcggtt cctgtacgag 300
ctccgggacc gacagctgca tcggctggag gctgctgccg gggt 344

<210> 29745
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-B2

<400> 29745

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tgatttaac taactaacta actggctagc tagctcgatc ggcagagcaa agcgaaagca 120
gcaagaagca aagcaatgga gaacctgcy agtgtgctag ttctaccagc gcagttcacc 180
aaactcacct tccgaaacct gtacatccgc cgggcccggc cgggcagcag ggagataacc 240
gaggagggca ggtgcgacct ggacaagaga tacgtgagt acttccccgt ctacgacggc 300
cgcgccccg acgccagcct tgtggccgc gtgcagggga tcaccagcga aatcggaac 360
gcgcaccaac tgttcgtcgt tgttttcgac accgacaggc tcaagggtc cacgctcgtc 420

accaatggcg tgat

434

<210> 29746
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-B3

<400> 29746

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tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt ttttttttta 120
taaaaaatct tttttttttt ggaaattccc aaaaaaaaaa aaaatttaaa aatttttgca 180
actttttttt ataattcagg ataaaaaaaa tttgtgggtt tttttttctt ttaaaataaa 240
cttggctttt taaaaaaaaa aggggggggcc tttttaaaaga ttccaatttt tctaccctt 300
cttttgaaat aataactttt tttttagggc acctaaaatt aatttacttg tgccgttttt 360
taaaaatctt gacttggaaa aaccttgggt ttcc 394

<210> 29747
<211> 452
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-059-Q1-K1-G4

<400> 29747

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aggatgagct acgtgatgct gtgctgcttg ttttcgcaa caagcaagat cttcctaattg 120
ccatgaatgc tgctgagatc actgacaagc ttggattaca ctccctgcgc cagcgacact 180
ggtacatcca gagcacttgt gccacaactg gcgagggtct gtacgagggc ctggactggc 240
tgtccagcaa cattgcgagc aaggcttgaa tatcaaatgc gaactgacta ggagctccgg 300
atgtatcatg gaaacttagg acagaatcgc ctcttcaacc tgtaggtgt cttctaccgg 360
cacaatatat tttttgcttg gaatatgtaa tgatgttacg gttcaacgtt tattctaccc 420
tactatactg ntggatgttc tttgngcctg tt 452

<210> 29748
<211> 383
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-059-Q1-K1-G5

<400> 29748

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caatgtttgcg gtccttttggg actcgaaggg gtcggaagaa aggatgtgaa tggcatgatt 180
cctgcttagc gactaaagta ttacgagtat atctctcttt cnggggaacc tgatatcaag 240
ggatttgcaa ggttaagtca tcaaccaccg accgccgcca acctcaagca agcttcctct 300
gcacaaatga ctcttgccat taatccagtc acacttattc tcaaccaagc atcaatcatc 360
gtcaaaaattt gtccttcgcg tgg 383

<210> 29749
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-G7

<400> 29749

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accgtggcta ggggattgaa gaagcacttg aagaggctca atgcgcccaa gcattggatg 120
ctcgacaagc ttggcggagc ttttggtccc aagacatatt ctggacctaa caagtgcagg 180
gagtgccttc ctatgatcct catcatcagg aacaggctca agtatgctct gaactaccta 240
gaggtcattt ctatcctgat gcaaccccat gtactcagct gatggcaagg tcaggactga 300
caagacctac cctgctgagg ccatggatgt cattttcatt cctgagacct tggagcacta 360
cagggtgctt tatgacacca ag 382

<210> 29750
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-G8

<400> 29750

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agcagcagat gctgacatcc gcataaaaga agccatgaac cgacttgagt ctgtcaccaa 180
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catggaagat gataacgttg acaaagcttg cgtaagcgat ccggattcag gaccggttac 360
cgagaacgtt gttgagttgg acgaccaggg acttgacatg cctactgtcg gggacacctt 420
atggga 426

<210> 29751

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-G9

<400> 29751

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cactaaccaa cctaggtttc acaagtcacg ccattgatgg ttgcaagatg accaatttgc 180
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tttgtaacaa gtttttgttt actcgtcgcc tacttttgct tcatagtgtt ctgggcatca 360
tggtctttgt tagaatttac ttgtaaaaac caagtgaata ttccttcagc acatattatt 420
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<210> 29752

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-H1

<400> 29752

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cattaaccag tgccttacaa ggtcttccgt tggttgcact gccaatgggtg agcaaagtgt 180

tattactagc attgctccaa gatttgaact cagtgcagcc tgttgaagag cctgtgtcca 240

gttggacaag cagtggtgca cagcatgtag gtactgatca caagcacaca ggtgtaactt 300

taccagatgt tatgtctgaa ccacttgtat atgcatcaat ggttcaacgt ttcagtcgca 360

ctgattattc gaaatgtctc aatgcacgag aaatgctgtt agtgaatgga ctgaatactg 420

ttaacttaac ttgaaatggc tatttaaag 449

<210> 29753

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-H10

<400> 29753

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cacgccaagc gcgtcactat catgcccagg gacatccagc tcgcgcggcg catcaggggc 180

gagagggctt gagcgcccgt cgtgctgctc gtcgttgtag tgttactaga agtagatggt 240

ggctttcgtt tcgtggcttc gttatcctgt aggagtaatg ttctagatgt cttggcttca 300

gtgcaatgga ctgtgattgc tcatttctga aatttatcaa tggacttggt cttgc 355

<210> 29754

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-H11

<400> 29754

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gtttgagacc accaagtact actgcacggt cattgatgcc cctggacacc gtgacttcat 180
caagaacatg atcactggta cctcccagge tgactgtgct gtccttatca ttgactccac 240
cactggtggt tttgaggctg gtatctccaa ggatggccag acccgtgaac atgctctcct 300
tgcgttcacc cttggagtga agcagatgat ttgctgctgc aacaagatgg atgcaaccac 360
tcccaaatac tccaaggcac gttatgaaga gattgtgaag gaagtctcat cctacctcaa 420
gaaa 424

<210> 29755
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-H12

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tgaggctgag gctgaggctg ctgctcctgc tgctcccgag gagcttccgg cggccgagca 300
gcaggcagcc gccgagccgg aggccgctgc tctgtctggt gccgaggagc ccgccgcggc 360
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<210> 29756
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-H2

<400> 29756
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gaagcacgag ctcatgtaca tgtggataga cctgctatcc aagtgcgacg cgtcgctaga 180
gatgaagatt gcaacctgac tcaacatgaa gacaaacatg tgatgcttgt gctgaataat 240

aatgaaaaca cgcattcatg tcattctcag gaacaagaga aataatacaa gaccagcacg 300
catggtcata ctctatatta tagatgggtca aaaagcacga agaccgtgag ccctgcacga 360
agccccgattt ttgggccccg tccgagcacg gcacggtaga atacgcggac aggctggaac 420
aggaaact 428

<210> 29757
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-H3

<400> 29757

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atgttctact tggacaaaag atctaagaag gctcctgttt ctagctttat tatcaaggac 180
tcgctaaaagt tgaaaaccag cgatgctgaa acggttgtca acctacatgc tgctagcgaa 240
aagtttgctg aactgattcc tctcctcgag tcaagcgctg acttgcatgc tctcaaagag 300
atgctggaag atgagtacct tgagatacca ggagacaccg tgaagcgtgt ttttgcaggg 360
cttatactcc gagatataaa ggagttttgg cgggttgcgc tgcttctatc cattctcttt 420
taccgagaaa c 431

<210> 29758
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-H4

<400> 29758

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cttttttgtt gagattgtcg tctggtagtc agtaaaccg aataaaaaat gtatatattg 180
ttttggaatt tgggaagtga acaaaaacct tttgttcaaa aaaataacat accaaaccaa 240
aaatttatat acacataaca tgtagtacgt tctatgaata ataccaaaaa taaaggactc 300

tatatattgg atacttaata aaaggggttg cct

333

<210> 29759
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-H5

<400> 29759

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gagccatggc gaagcctcgc agcggcggcg gcggcggcct cctggactta gaggggcact 120
acgcctttta cggcgcctac cacagcaacc ccgtcaacgt gggcatccac gagctcttcg 180
tgtggcccat ctctctcacc gcgctcatgc tctctcacct caccgcccc tccacgcacg 240
ccgtcggcat cagcgcgcgc gtctacgcgc cctactactt tcttctcgac cgccgcgcgc 300
gcgcgctcgc cgctctgctc tgctacctct gctgggcgcg cagcggcgcc ctctctgccc 360
gcctcggttt ctctgttgga tggaaaggtg tattggtggc ccaattgttc tgggtgggtta 420
tgcaattcat tg 432

<210> 29760
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-H6

<400> 29760

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gtccgggaat ccgatcgcaa gttatcgctg ctagcattcg ggagcacccc agttattatc 180
atataatagt aactgtgctt gtaaataatc tggagcagca gtgttcatga gctcccagcc 240
ccgcatttat attctcataa tttgtagtac gttctatgat ttatccgaaa ataaaggact 300
ctatatatgg gattctaaat aaggtatttg cat 333

<210> 29761
<211> 407
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-G2

<400> 29761

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cctcgacctg agtgactgca cagacaggat catcgccgag tacatctggg ttggaggatc 120

cggcatagac ctcaggagca aagcaaggac ggtgaaaggc cccatcacccg atccgagcca 180

gctgccaaaa tggaactacg acgggtccag caccgggcag gctcccggag aggacagcga 240

agtcatectc taccctcaag ccatgttcaa ggacccgttc aggaagggtta acaacatcct 300

tgtgatgtgt gactgctaca cgccacaagg cgagccaatc cccagtaaca agaggtacaa 360

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<210> 29762

<211> 176

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-E12

<400> 29762

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atcccagtgt tttagtcggt tttagcctta gccatgaatg taaaaatgtt gtaaaattgt 120

cagcctgcct tacaactcct tccatcaagg caaaacgagt gcaatttctt cacgac 176

<210> 29763

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-E3

<400> 29763

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cttccaaccg gattttcttcg tctttgggac caactcactc tgcgcctttg cgctcaacct 180

tgctgtgttc ctgctagtgg gcaagacctc ggcgttgacc atgaacgtcg cgggagtagt 240

caaggattgg ctgttgattg cattctcgtg gtccgttata cgggacaccg tcaccccgat 300
 caacctgttc ggatatggga tcgcgttttt aggggtggcc tactacaata atgtcaagct 360
 gcaagcgctc aaggctaagg aggcccaaaa gaaagccgca caggctgatg aggaggttgg 420
 atcgctcttg 430

<210> 29764
 <211> 78
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-E4

<400> 29764

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 tctacaacaa cactaaac 78

<210> 29765
 <211> 367
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-E5

<400> 29765

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 gaagacctgc tcttttgga ctgactgata tttggatatt cacaggatgg cttactgaa 120
 cattgcctat acttgctaata agaaatgaac gggcatataa tacctgatgc gacatccttg 180
 ctaggtatgc tctcataatt cggcatgca ttcacgagg cagacggccc accgtgctta 240
 aaggcaatga ttgaacatgg agttgtacca gagatagatc actacttacg tatagtgcac 300
 catctagggc atacatggct gctagatgaa gcatgcgac ttattcagac gatacccatg 360
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<210> 29766
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-E7

<400> 29766

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ggtacgagga gcaaagctat cgaaggtggt tggccgagcg tgaggagggg agagagtaaa 120

aatagttgtc aatggtgggg aggagacaga aaggagtttg gtgaccaatt ttagcacagt 180

ttaacatctt tgggtgaagct aaagtgccga tgggtactaa acttttagcac aacactttta 240

gtcgccctgt tgtttcttta atagctaaac tttagtaaaa atgtttggtg ctaaacttta 300

gcaaagggga ataaatgggt cttaggctga tgatttagct gggtgaaagc tgaagacaat 360

tgcattgtcac gtaaaccaag cttggttagct catataatgc 400

<210> 29767

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-E9

<400> 29767

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gttgaaggga tctgttcctc tgagatgtat gagagtaatt tgtagttata caagattgca 120

atgacatgct ggaagattaa catagacatg tacggatata acgaaagatt aacatgtgct 180

ggaagcagtt tcatacatat ttgtgttgca gctgtattta agagaatgag agatacaaaa 240

tcttttgagc taaattccat gacacaagta acataagccc cccggaacct aaaactttac 300

ctggattagg gttcttcccc ttttaataaaa agatggtcac ccttttgaac ttgcc 355

<210> 29768

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-F1

<400> 29768

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aaaggttagc aaggataagc atctgatggt taagctgcct gtcgggatcc ctactaatgt 120

tctccacatg accacccgca aatctcgaag cagtttatga acaaacacat gggaccggta 180

cgagttacgt atacataaga cggatgatcga cctgatcagc taccaagaca attttaagca 240
 gatcagctct attaccattg acccacttga agaacaaaac gtgactgtca actacatgta 300
 atgacgatct atatattctt accgc 325

<210> 29769
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-F10

<400> 29769

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 agttggtgct catcctagtg gatatcttgg cgaggaccca cgagaatttc caaccatctt 180
 atgccctatg gtcaacaagt tgcggttggt aggaagccca gttctgacag ttttaggaaa 240
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 ttgacggaca tatcgttgta ttgcaaaatc ttttagagaa ctctcgcata ggggtgtgaag 360
 cgcacaccct tgaacccgaa agaggcacat gtgctctgg 399

<210> 29770
 <211> 224
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-F11

<400> 29770

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 aaaaatagat tatataaagt gagaataaaa aaataaaaagg ggggccggct tttagaacc 180
 ccaatgtttt ttaaatatgt tgggattggt aatttttttt tttt 224

<210> 29771
 <211> 241
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-F2

<400> 29771

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atactctgac cctgctattg ttgataaagt gatatatgac aatcattgtt atcaatggat 180
agcatgttta aatttagaga tccataccta aaatgtttgg tgcaatttat ctttaatgat 240
t 241

<210> 29772

<211> 185

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-F3

<400> 29772

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caaacttaca taacactcag ggcaccttt cacatataac actcgcacac atattcagca 120
acctcaatcc acacccaaca ataactgctc aaaaaaaaaac ttataaacat taacactaac 180
tcacc 185

<210> 29773

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-F4

<400> 29773

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taaacgttga ggctagcaaa ataagtgtgg gggtcaggtc catattctgt atcgtagaaa 120
aagctgaagc caaatgggtg aagaaactcg ttcgagatga tcaaagggca cctgactttg 180
tgaaagtga ttgggacaaa tgggttgatg aagatgatga tgggtgctgat atcaacatgg 240
atgggatgga cttctcgaat ttcgggtggca tgggtggtat gggcggcatg ggtggcatgg 300
gtgatatggc tgggtatgggt ggtcttggtg gcatgggtgg tatgggtggt cttggtggca 360

tgggcggtat gggaatggat gatttcgaag atgagagtg

399

<210> 29774
<211> 234
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-F5

<400> 29774

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gagctgtcct tgatggagaa gatgctgcat gtattgagct gatgtttag ccaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaag tgaaaaaaca aaaaaaaagc cacattaaat aaatctatta ataa 234

<210> 29775
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-F6

<400> 29775

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agcccctacc ggcaacccta gcgaggcgat ggggaaggcg gaggcgaggt caagggggcg 120
cggcgggcggc ggcggcgggc gaggcgccag cggcaatccg gggaagatct tcgtcggagg 180
gctcccgcg gacaccacgg atgctacatt tgtgaggcat tttggacagt atggagaaat 240
agttgattcg gtgataatga aggataggca cacatctcag ccacgggggtt ttggcttcat 300
tacatactct gaccctgctg ttgttgataa agtgatagag gacaatcatg ttatcaatgg 360
aaagcaagtt gaaattaaga gaaccatacc aaaagggttcg gggcaatcta gctctaagga 420
tttcaagact aaaaagatat ttgttg 446

<210> 29776
<211> 275
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-F8

<400> 29776

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acaagataaa cattgaggct agcaaaataa gtgtgggggt cagggtccata ttctgtatcg 120

tagaaaaagc tgtagccaaa tgggtgaaga aactcgttcg agatgatcaa agggcacctc 180

actttgtgaa agttgattgg gacaaatggg ttgattaaga tgatgatggg gctgatatca 240

acatggatgg gatggacttc tcgaatttcc gtggc 275

<210> 29777

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-F9

<400> 29777

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tagggagctg ctagtgagat ggaagaactg atgtcagatc agacgtgggtg atgactagcc 120

atgaaagtga actttactga taccgtactg agccatcaac tgggtgggggt aattagctag 180

ctagctaact gctgggggtta tggttaatgc atgaactgct attagttacc agatgtaagt 240

gtaaatctgg agtcctgctc ttgctactgt atgtgaactg actgtttcac tccactacta 300

tgtaagaatc acagcattaa ttt 323

<210> 29778

<211> 277

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-E11

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tagctaaaga ctttcagcat aggagcaatg aaaggagtta gcttggttct ccatggatca 120

tctggtctat ctcatgaact ctctaaagaa tgcataatac ttttgctcga gaaaatttaa 180

tgtgaacact catgttctta acaactacct ggctgttcct cataaagccc caaaaagact 240

ttattcaagt gatggcgtct gctaaatatg catttaa 277

<210> 29779
 <211> 408
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-059-Q1-K1-G1

 <400> 29779

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 aagccaata atcaaaagcc atctgcttct tattcagctt atcacagtca agtgatgtat 120
 ccatgactcc tttacataa ttcaaatacc ccaaaacatt gcaaatttac tctggatggg 180
 cggttgtagc taaaccgctt accggtttta acctctgacc caatgactag ctgatcatta 240
 tatgctttac ctcaattcca aactacagc ttgaactgca ctgtgccagg aatacctgtc 300
 caattgtttt tatcgagata atctgcaatt taacctatca tatgcaaatt gttcctgtag 360
 acatttatgt cattcatttc tcatgcaaaa aaatattttg gcactaat 408

<210> 29780
 <211> 162
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-059-Q1-K1-G10

 <400> 29780

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 atgtcgattc ctattaggcg gctcttcatg gctggtgctc ac 162

<210> 29781
 <211> 393
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-059-Q1-K1-G11

 <400> 29781

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tgcaccgacg agaatttcat cataaagtcc ggcgccagc ggcgccgacgc tgcccacggc 180
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gctatgattt tgggtgtgggt gccgggtttt atatgaatgc cacaaatgaa aagtggaaaa 300
actggcgcat gtatgactac attgtgaagg gaccttccaa aagttttaag ggataacttt 360
gaacaactaa acccgtaaca ggcttaaatt ttg 393

<210> 29782
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-C2

<400> 29782

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cgggtgtcgcc gagagcacgc ttaaggacaa gttccccagc ggtctcaaga tcttgaccaa 180
ctcgactgcg ctacacaaga tggggttcat gttcatcacg catacactca tggaccgaca 240
ggacatcagc gtcgacgtag gccgattcaa ggaggtgctg cttcaggtgc tcaacatggc 300
tcgcacagta ttacagctgc atgctcactg ctt 333

<210> 29783
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-C3

<400> 29783

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ccatatacaa cgcggttatg ggcacattcg ggtatgtggc tcccggtatg ccaatacagg 180
tctgttaaat gagaagagcg atgtctacag tcttgggggtg ctactactgg aagcagcgac 240
tgctagggat ccagttgact atggtcggcc tgctaagag gttcatcttg tggagtggct 300
gaaaatgatg gttggcacta g 321

<210> 29784
 <211> 349
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-059-Q1-K1-C5

 <400> 29784

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 gaggttgctt tcatttgcca ccttcagaca ctggtttagc atcatgaagg tgaatgggag 180
 tggcataact tcaatagtct gaccagctc ctgagcacct gtcatagttt tacctctcac 240
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<210> 29785
 <211> 400
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-059-Q1-K1-C6

 <400> 29785

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 aacttctata agcaccgcaa tgggtcctc aagaatgcgt acgaactctt cgtcctctgc 180
 gactcttaag ttgccctcat catcttctct agccgtggtc gcctctacga gtattccaac 240
 aacagtgtca aggctactgt tgagaggtac aagaaggcac acaccgttgg ctcttctct 300
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 cgcaaccaga tccagatgct gcaaaacact aacaggcact 400

<210> 29786
 <211> 394
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-059-Q1-K1-C7

<400> 29786

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ggctgaggac aagaagaaga tcgaagatgc cggtgacggc gccatcagct ggctggacag 180

caaccagctg gctgaagtgg aggagttcga agacaagatg aaggagcttg aggggatctg 240

caaccccatc atcgcggaaga tgtaccaagg cgagggcgcg ggcatgggag ctgctgctgg 300

catggatgaa gatgccccgt ctgggtgggag cggtgctggt cccaagatcg aagaagtgga 360

ttaaattggt tagtgttcga ggtttggttt ggtg 394

<210> 29787

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-C8

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gcgcgcgaga aggccgtaca ggatcttacc gaagaattgg caaaggtgga tgggaagctg 120

aagctcacag agtctctcct tgaaagcaaa aaccttgaag caaagaaaat caacgtctaa 180

aaaaaagcag cgcttgccgc acagtttgca gctgaggcaa cactacgaaa ggttcatgag 240

gcacataagg atgatgacat gcctactatt gaggccatac ttgcaccact ggaagctgat 300

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cttacaaag 369

<210> 29788

<211> 416

<212> DNA

<213> Zea mays

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<400> 29788

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gtcccttttg ggcaccatta aactgattat tctaaagtct ggccacatta ttttaaaga 180
cagaaaccaa ctagctgaag aagaagagat caaagacaag atgaaagaac ttgaaaggga 240
tctgcaaccc catcatcgcg aaaatgtacc aaaacaaggg gcgccgtcat aggcgctcct 300
actttcatgc atcatgatgc cccgtctgat gtgagctatg ctggtaccaa aatccaatga 360
agtggctcta attttacaac gttcgaactt ggaaaaccgg aggtgtcccc aaccta 416

<210> 29789
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-D12

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atcacggttt tggtaatgtc ggaatcttgc aacaaagtgc agatgggtcac ctgatagcta 180
ggatatgatg ggctgatca gttacttgtg caaatggtga gtgattgagg aagccctaaa 240
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tctcaaacag ttgcgcagga caggtcatac cagcattgga tgctcactgt tggaggatgt 360
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aaagg 425

<210> 29790
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-D4

<400> 29790

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ttctatatac ccacttttaa ttttcacctc acaaatactc tctgtgtctg ctattctttc 180
aaaaataact ccacattttt atacaccaca accccaaatt caactcaaaa tgtacacata 240

tcaaatatct tattcacaac tctatataaa cacacattct acaatatata tacactcatt 300
ccagtttcat cccaa 315

<210> 29791
<211> 456
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-059-Q1-K1-D5

<400> 29791

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cgtgcccct ggtggtcggg atcgtgctca ccgccgtcct gacgtcggtc ctggtggccc 180
tgctgctgtt cctgtctctg ggcatcacca tgggcaagct gctgcagtag agggaggtgc 240
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gcctgcccag gcttggcccg ctcttcgagg acctgcgcgg cccgccaag tacatgcgtg 360
gcggtggagg cggcaagcgc cgcgccgaag gcggcggacc agagcggcgg gtcacgcgt 420
cggaggacga gaacgagggg tcgagggcgc ccttgg 456

<210> 29792
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-D6

<400> 29792

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ctatttgccc agagaaaact ttcagcgcac aagtactctt ggtttctgct ttgcttccaa 180
ttagaactgc agtggttgag acgacagtag cataatttca actaaagtgt acatcttcaa 240
tcttctttgc aaggctatat ataaacacat gtaccatcat atatagattc ggttggtggt 300
tgcatccaaa gtagcacttc tcctcctatg agtagtattc cgggtgtacaa ccaacaggat 360
tggttcacct tggaaattat ctgcagacaa tttagaattg tggtgcacta tagttattac 420

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444

<210> 29793
<211> 432
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-059-Q1-K1-D7

<400> 29793

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ccctccattt ggtagtgca actatttggg tcggtggatg gcgtctgcag tttgctcaac 180
ttatttacag ggttttgggt catgcctttt gtgatgtata gctgaagtat tttcccgggt 240
tgttttgttt ccagacccc cagacttacc cctttccttt ttcttnttct ctctttcttc 300
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ttttttcttt tt 432

<210> 29794
<211> 221
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-D8

<400> 29794

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ttgaaatctt ttataaatca atgaacaatt ttaacaata tgattattat aattcttttt 180
aattatttta ccaaagatat tctttttata atctactttt t 221

<210> 29795
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-D9

<400> 29795

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cgccgcggcg agggcgccga gccgcgcgca cgtcgcgggcg gccgggatgt cctccagggc  180
gtcctccttc gtcggtttct gctgatgcga cttttctgcg gtggccgcta ttgttgcttg  240
tctgtccatt aagactggct tccatgaaat ttgatagggt ctggtgttcc aaaccgaagg  300
atgaatcatt gtttgtcc                                     318

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<210> 29796

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-E1

<400> 29796

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gacggaacat tgctataact tgccaagaga aatgaacggg catataagcc ctgatgcgac  180
atccatgcta ggtgtgtctct cataatgccg ggatgcattc atcgaggcag aggtcccacg  240
gtgcttcaag gcaatgactg aacatggagt agtaccagag atagatcact acttacgtat  300
ggtgcatcat ctagggcatg catggctgct agatgaagca cgcatctta ttcagacgat  360
accgatgcct tcaa                                     374

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<210> 29797

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-E10

<400> 29797

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tcgaccgaga gctagcacgc gatggcgagg tcttccaaga tgatggtggc ggcagctctg 180
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 gagaagaagg acgacgcggt ggtgcagccg cagaccttcc cgcccttcga ccgcctcggc 300
 ggcgggcggt ccccggcgtt cggcggcctc cccggcgga gcattcccgg gttcagcatg 360
 cccggcagcg gcagcagcct acccggttc agcttgcccg gcagcggcag catgcccctc 420

<210> 29798
 <211> 351
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-C12

<400> 29798

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 tgcgcataac ttaaagtccg cactgacaag ccagagtccc tactgccaca tgatgcccgg 180
 gatctgaaac tctatcacca gcacttcggc aaaatgttga tcgattgact aaatgctctg 240
 tccaaagaac tcactatttg actgctacga tcatctgggc accagcgcag attcagcact 300
 tttaagataa ttcccgcagc cagggttatac caggatttga tggcgattga c 351

<210> 29799
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-A6

<400> 29799

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 gcaatggatt cgactcctcg gttatgtcta cagcagcagc aaccggaagc tctggaagca 180
 ccgtgactga ccttgggggt gtaggcagag gcgtcaaacg agctagcatc aagccgatct 240
 ctgctgaacc tgctgctaata acctgcactt gattcaccat ctcaacaagg tgacagcagc 300
 atcaactctg aggttggttc tgcaacgcag actggagacg agtcagtatc taagtaaatt 360

acaatttcat tagccctact gtaatgttaa cttgctggaa catattaact gctatgt 417

<210> 29800
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-A7

<400> 29800

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tcagcatggg cctggtgaag gaaggcatcg acatggagga gggaaccctt gagatcggca 180
tggagtacag gactgtatct ggtgttgctg ggcctctggt catattggat aaagtaaagg 240
gccccaaagta ccaagaaatt gtaaacaatcc gacttggaga tggcaccaat cgccgtggtc 300
aagtcttgga agttgatggc gaaaaagctg ttgtgcaggt ctttgaagga acttctggaa 360
tagacaacaa atacacaacc gtgcagttta caggcgaggt tttgaaaact cctgtcttac 420
ttgatattct tgggcgcatt tt 442

<210> 29801
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-A8

<400> 29801

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tcagacacaa taaagccata tctagagaca catggtccca gctgctggaa tttgtgaaga 180
cgaccgatcc acagttatcc aactacgacg acgaaggtgc ctggccctac ctcatagacg 240
aatttgtgga atatctgact gagaacggac tcgtccagcg taaaagatga acaacgggga 300
gatgcatctc caaacaatgg ttgggctgta caaacatgat ttatctcggg cagctcgacg 360
cccaaggcct gatattggca ctctgctca attcattcac caaactgggtg gcatatcatt 420
gaatttgct 429

<210> 29802
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-B1

<400> 29802

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agtaaaagcc ctggtctttg gaaacagacc tggaccagga tacgtgattt gctaactgcg 180
ggctgagtc ccagcctggt gagcacgttt atggaaatcc caggtataag acttagtctc 240
tgaatggtgg atcaggtata tagttataga ggggtggaaac acgtgcgcat gcctgatggg 300
tcatttagtc atatgtgatc atatacatgt tgtacgggtgc atgtaacttt agtactatcc 360
ttgtcattgt aaatgctcat ttatttatag tattgggtctc ttacaccgtt attttgtgag 420
aatattatta gaaaaaacg gatgcttt 448

<210> 29803
<211> 311
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-B11

<400> 29803

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gtggaccggc ggaagttggt gaccaccgag aagcggggcg tggccacgcg gctggcctcc 180
ttcttcgtca cgttctctgg gtctgagcac cggccttcgt accttaagct gttttctgct 240
gatctggg cgctacttgta gtactcttat catgtgtgac atctttttct ctcaattttt 300
tttttatttt t 311

<210> 29804
<211> 86
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-B12

<400> 29804

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gcactagccg gcctgctgaa ttaagc 86

<210> 29805

<211> 209

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-B2

<400> 29805

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tacttctatt ttaatattat gattgctatt ttttcaaagt aacctgacct tttccggatc 120

attgttgtca cattttacaa tatcctacac aattaaacca tatccatata cacattgtac 180

cagctgctgg aatttgcaag accacctat 209

<210> 29806

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-B3

<400> 29806

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tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 180

tttttttttt tttttttttt tttttttttt tttttttttt ttttaataaa aaaaaaaaaat 240

attaaataaa ataaaaataa taatataaaa aagatatata ataaatattt ttatataaat 300

attatttttt tatataattt ttatattata tattattttt ttttttttta aaatttattt 360

atatttttat tttttttaaa 380

<210> 29807

<211> 220

<212> DNA

<213> Zea mays
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<210> 29808
 <211> 442
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-059-Q1-K1-B5
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 gtggagagat tgcgtgcact tctacgacaa agtggtcgat cgaccaaagg caaaaaggat 180
 gaactgattg ctgctttacg ggagtcgcag ggttgacatg aatctggtac ttgttttagtc 240
 aatcaaacc cttcaggcag gggttacacg accaaatgag taccaggctg tacttgtcaa 300
 tggctgctct gcctagattg aatacaatgt aatggcatat gtaggttgag actttgccgg 360
 accttattat actcagaatt tgtaactag ctgttacctg tcagtagtca tgaattcact 420
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<210> 29809
 <211> 437
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-059-Q1-K1-B6
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tgggagggct cctagattcc gtcgccctat gcgctacaga ccttacttct gaagtacggg 180
 gtagggtaat gaagttcaat gcaaaaccag cccatgggtca ctggtcagtc ccggaataa 240
 tcaactgtat cgtttgact gttgcggctc aatgctcctg tatcagctgc cttttctgac 300
 ctttgtttca agtgccgcca taagcgacgg acatgttgta ttggcttgta atacaggacg 360
 taataagtgc acacactttc ttgaagcgtg ctttcccact ttccaagggt actaactgta 420
 tgcaatttct ggagttt 437

<210> 29810
 <211> 330
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-B7

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 tttttaaaatt ttttaaaaaa aaaataaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaata 180
 aaatttttaa ggagaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaattttaat 240
 aatttataaa aaaaaaatat tataaaaaaa aaaaataaat ttataaacia aaaaaataa 300
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<210> 29811
 <211> 112
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-B8

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<210> 29812
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-B9

<400> 29812

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ttattgagag tctgcagcct cgtttcagag ttgtagatgt ggagacaatg gaaggagagg 180
tgtatgctgt tttccagaaa gcaaaaggaa acctgttgca agcattcagc actatgccag 240
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ttgctgggca gtttattgac tccgattgga aagtgcaccg aagaatgctc aacttcatga 360
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<210> 29813

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-C1

<400> 29813

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tggcgctgct agctggagac gagacgaggg cgagaggcag ttgcatcatt cgccattcgc 420
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<210> 29814

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-C10

<400> 29814

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ggacgacccc accgcgggt cctctggcgc ggcagacgcc gcggacgcgc tcttctgtga 180

cagctggagg ctgtcgggtg agacggccaa cgcgggcccc tggagcgccg tgccctcgcg 240

ctgtggggct ttcgtgcggg actacatgga gggacctcgc tacgcgtctg actccgccgt 300

cgccgacgcc gacgccctag ccttcgcctt cgaagccctg gccgccgccg agtggggcgg 360

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gcc 423

<210> 29815

<211> 431

<212> DNA

<213> Zea mays

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cacgaggccg actgtgaggg cacccaatct gctgctaaga agcctcgacg caatataaac 180

gtacacagcg cttaccttca tgtgcttggg gactccatcc agagcatcgg ggtgatgatc 240

ggcggggcta tcatctggta caagcccagag tggaaaatca tcgatctgat ctgcaccctc 300

atcttctcgg tggtcgtgct gttcaccacg atcaggatgc tgcgcaacat cctcgaggtc 360

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<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-A5

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cataatttgt ccacttcaaa caatctgatg cttgaatata cctgcttctg aattcacatc 300
taggcttact gacatcaatt gaacctcttg aaatatatct aattatattc tctcctgaga 360
gtttgtatct taaacaacct tttcctcaat taattacaaa tatttaacct atttcttaat 420
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<210> 29817
<211> 305
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-G6

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aatttgcttt tttttagggt tattttaaatt taattaactg gccttttttt tacaacttgc 240
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tggtt 305

<210> 29818
<211> 264
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-G7

<400> 29818

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gcaacctcaa acatttagat cttccctgcc tccctgggta acttgatcaa aaatttttta 180

agctccagag aatagcctta cattggcaaa tcatttgccc atagattgta agaaataaaa 240
gaggaaagaa atgtctttgt ggac 264

<210> 29819
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-G9

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ataaattcta atagtattgt gtatatcatc tattgatttg tctaccttca ttaattacag 180
tgtgtacttt ctttgctaag ctaaaatttt cttgtcaaca tgaatattaa gtagtttact 240
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tttggcagac tttttctgag atcaacaagg ctatgatatt tcc 343

<210> 29820
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-H1

<400> 29820

gaaactgcc aagaacagctc ctcaattgaa aagagctatg agctacctga tggccaagtg 60
gtgaccattg gtgcagagag attcagatgc cctgaggtcc tcttccagcc atccatgatt 120
ggtatggagg ctgccggaat ccatgagaca acatacaatt caatcatgaa gtgcgacgtg 180
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aaggtcgttg caccgtctga gaggaagtat agtgtctgga taggagggtc catcctagcc 360
tcgctgagca cttttcaaca gatgtggata tctaaggagg aatacagatga gtctggcccc 420
gcaatcgttc acag 434

<210> 29821

<211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-058-Q1-K1-H11

 <400> 29821

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 aacttgattt ttgaaatgtc ctgcattgaa acaggaaact ggcattgccca acgtttgcag 180
 cactcccatt gctaattggca tatgctgggtg gcatttccat catcattcca aagcccttaa 240
 ctcttatgt tggactaacg gttttggagc taggtttatt ttacaagcta ttcattgctct 300
 tgtagcagt cttttgtaca aactcgataa atatacatgc tgggtctaaat ggacttgaag 360
 ttgggcagac tattgttata tctgctgcgg ttttgataca taatgtaatg cgcatagcat 420
 cttctaca 428

<210> 29822
 <211> 381
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-058-Q1-K1-H12

 <400> 29822

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 atgcgctacc attgttgaga tgctgataac ttgatttttg aaatgtactg cattgaaaca 180
 tgaaactggc tttgccaacg tttgcagcaa tccattgct aataacatat gctgatggca 240
 ctccatcat aattccaaag cccttaactc cttatgttgg actaacggtt ttggagctat 300
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 tacattctca cctaaatgga c 381

<210> 29823
 <211> 240
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-H2

<400> 29823

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gcgcccttat tcaactaatc tggactgggc tccctgctta tatcactaca atattatact 120
actagtattg gtgcttgata tcagtgtgtg gctgtgctaa taccagtgtg atactgggtc 180
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<210> 29824

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-H4

<400> 29824

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gccgcggcag gacgccatcg acctccacaa agcattcaga gggttcgggtt gcgacagcac 120
gacggtgacc aacatcctgg cgcaccgcga cgcgacacag cgcgcgctga tccagcagga 180
gtaccggggc gtgtttaacc aggacctggc ccggcgcacg gcgtccgagc tgagcggcca 240
ccacaagcgg gcgatgctgc tgtggatcct ggaccgggcc acccgcgacg ccaccatcct 300
gaagcaggcg ctcacgggcg acatcaccaa cctgcggggcg gccacggaga tcgtctgctc 360
ccggacgccg tcgcagctgc agatcatgcg ccagacgtac cgcgccaggt tcggctgcta 420
cgtcgagcac gaacgtaccg aacgcacgtt c 451

<210> 29825

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-H5

<400> 29825

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aaggcgcgga gcaagatgtc gtggcaggcg tacgtcgacg agcacctgat gtgcgagatc 120
gaaggacagc atctcagcgc cgccgccatc gtcggtcacg acggcagcgt ttgggcgcag 180

tccgagagct tccccgagtt aaagcctgag gaggttgctg gtatcataaa ggactttgat 240
gaacctggta ctcttgacc aactggtctt ttcgttggag gtacaaagta catggtgatc 300
caaggtgaac ctggagtgt catccgagga aagaagggca ctgggggcat tactatcaag 360
aaaaccggca tgtccttgat tattggtgtc tacgacgagc caatgactcc agggcaatgc 420
aacatggtgg tggagaggct cggcgattac ctgattgagc agg 463

<210> 29826
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-H6

<400> 29826

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atggccgtcc tccttgagac cttgcctccc cgagtgtctt cgggtgagcta ctttgtttcg 120
atztatcagg aaatccgttt gcttcatgtt gtgcaggctc atatctgatt gctggattcg 180
gcaaaccgc gttggatcct gtatcggtta gtccttgctt gcaaggttct tgttgttttg 240
ttttggtggt cgagcatcgc atgttctgct tctggatcca gatctggaga aatcgcaag 300
tcgtcgtcgt tcggttcgga gcggatctga ggcgacgata gatggaggcg gcgggatctc 360
tcggtctgca gtcctgctcc acctcgatgg atgatgtctc tgcgctgata attattggat 420
caatttcgat gattattagt agatc 445

<210> 29827
<211> 249
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-H7

<400> 29827

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gggaaaaatt aaaaaaatat aaaaaaaaaa aaaaaaaaaa aaaaaggaaa gaagataata 120
aaggtctggg cgttctttcg gttccttgct tgctttctgg ctgcttgcat aggtgttatc 180
tattttttat tgagtggctg ttttttttta ttgtctggtc ttttataacc ttgggattgc 240

<210> 29828
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-H8

<400> 29828

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caaaatgctg gcagaagcgt acattttgaa cttctctaca tcaacttggt aggtgaatac 120
aagtgtctca agatcttcaa tccacaacaa gtatatattga taaggctgcc tagtgacaag 180
attactatgt gctcaagcac ttaatcaatc gaagacattg tatctatctt atgtccgaga 240
atacgctaaa gtgcctcaat tcttgtatag catttcaaac tcgcttcata acatttcttt 300
catattgtaa taatggttgc agcctaaaat aaagtaagac actataaata atttgtaaaa 360
gaaatatgta ataaatttat ataattattcc aaaaaaaaaa gggcgg 406

<210> 29829
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-A1

<400> 29829

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cacgggcact ggagctggag ggaaggcgaa gaaggagcg gccggtcgca aggccggcgg 120
gccgaggaag aagtcggtga cgaggctcgt gaaggccggg cttcagttcc ccgtcggccg 180
catcgggcgc tacctcaaga agggccgtta cgcgacgcgc gtctgcagcg gtgcccctcg 240
ttacctcgcg gccggtctgg agtacctcgc cgctgaggtc ctggagc 287

<210> 29830
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-A10

<400> 29830

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aagcctcggg tatgacccga attatggcgc gaggcctgtg aagagagtga ttcaacagta 120

tgtggagaac gaactcgcaa agggcatcct cagaggtgat tttaaggact aggacagcat 180

cttcgtggac acccagggtta cggtgccctc caatggccag cttccgatgc gaaagctagt 240

tcttcagaaa gtgtgtgagc aatctaagcc tgctgctgaa ggcgagaaga tcttgccctac 300

tgtctgattg gagctctgtt gcagttttgc aaatatgggtg caacataatg tacatatgaa 360

ggttgctgat tctaagagta tatectctgg cttataagag cattgcatcc acat 414

<210> 29831

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-A2

<400> 29831

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gatttcagtt cctgcaattt tggatcgtat cagagatgca gtgtttaaga aagttggtga 120

gaaagggtggc ctgacaaaaa agctgtttga ttttgcatat aagcgggaatc ttgcatcaat 180

tgagggggagt tggtttggat cctgggcacc ggagaggatg atatgggata ccattattta 240

taaaccaata cgggcaatgc ttggaggacg tgtaagattt gttctttgtg gtgggtgcacc 300

tttatcaggt gacacacaaa gattcatgaa tatatgtcta ggtgtcccag tgggtcaagg 360

ctatggtttg acttgaacct gtgctggagc agctttcact gaatgggatg acacaagtgt 420

tggtcgtgtt 430

<210> 29832

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-A4

<400> 29832

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gtcacctttg atttgcctaa aaaatgacat ggcttactcc gttcgcgtga tcaatctgtg 120
atgcttccac tttgagaact ttcgactgag gacatgcac acgaactttg catcttgcta 180
atatgttcta tttcaccaat gtctacgcct catcctacag gctctgtata taagtccttt 240
gtccaaagct cgggtgctcat agctagatgt ggacatcata ctatcattgt ccatgggact 300
ttcaacaaca ctgtgcttat ttcattgcac acagtgatat ctgcatttgc tgacagctgg 360
aacctttaca tcacgtggc acgtaaaatt ctattggaat catgcctatt atagttc 417

<210> 29833
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-G5

<400> 29833

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ttctacgtcg tgctggagcg tgcgggctac cgtgtggcac gccgcaggag gtgcaagtcc 120
cgcgctcgga ttcagcacag ggtgaccaag gaggactcca tgaagtgggt ccaggtcaag 180
tacgaaggcg tcacctcaa caaggctcag gccaacacgt tgtaaacctc acctgtgggc 240
aaaacagctc tctggtctct tctcctctc cgtgtcaacg caagaccacc acccacctcg 300
ccaggctttt ttgggtttta tttgtgttct cagccctgat gtttagtctg ctagcactct 360
gtgggtgctg ttgtcgcaag atcaccacca tgtcaattat ttccgtgcc ttgtcgcaaa 420
aa 422

<210> 29834
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-F1

<400> 29834

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gggaaagga aattatcata cgaggagttc tttcagtaac agcgatatct ggggaggatc 120
tgctgcgat ggatatgaat ggaaaatctg acccatatgt catactttct ctcaagaaga 180

cacagacaaa gtacaagaca agggttgtga ccgaaagctt gaaccagta tggaatcaaa 240
 cttttgattt tgtcgttgaa gatgggtttac atgacatgct tatgttgga gatatgatc 300
 atgacacttt ccgtagagat tacatggggc ggtgcatgct gaccttgaca aaagttttgc 360
 tggaggaaga gtacaaggaa agcttcaacc tggagggagc gaagagcgtg aagctgaact 420
 tgcattctgaa gtggtcggca c 441

<210> 29835
 <211> 213
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-F10

<400> 29835

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 gtgtattgtc aaacttgca g aaccagttgc atgcatgaaa aataataagt gtctgggtat 120
 ctatgggtgc ggggtaccca tctccgcacc agcgcaccca gccagaaaca gcagttttgtt 180
 tggatcta at cagaacccga tgctatttgc tgg 213

<210> 29836
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-F11

<400> 29836

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 gaccagcacc tacaccggcg tcagcttacc ctgagcaacc tgcggcagct cctcaacctt 120
 attatggaac aacctactac tgacaagtag agtaatcttc gatggcgatc tgacgagcct 180
 gttaatcagc aggtttgtcg atacgaggtc aaaggcatcg caaaaccctc tgtactgcca 240
 ttgttttagcc ccccttcaga cagatgccgt cgacgagatg atcgcttgag aacaaatttg 300
 agattgggtat agtctgcatt tttgtcgtaa gcatgtgtcg ctagggattg ctattgtttt 360
 tcttgtaata gcataatctt tactgtagaa gaggcagctg gtgctaacca atcctatgaa 420
 catataatt 429

<210> 29837
 <211> 415
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-058-Q1-K1-F12

 <400> 29837

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 gctctctccg ccgaagaatc ggcgggcgcg gcgggcgga ggccttccc ttgtcaaaat 120
 ccacccggcg gcagagcaga gcctcgttgc tgaggagggg agatggcagg catgaccgat 180
 atgccgatga ggccggcgcg gccggggccc cgatgcagc accggggccc tccgccgatg 240
 gcgcgcctcc gccccgaacc aatcgaccgc gagaagacct gccctctgct gctcagggtt 300
 ttcacaaggg ttgctggtca ccacaaaaat gaagagtttt ctgtgagagg gaaagaacca 360
 aaggatgaag ttcagattta cacatggaag gatgccactc tccgtgagct tactg 415

<210> 29838
 <211> 392
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-058-Q1-K1-F2

 <400> 29838

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 gctcttcgcc tacggtaccc tgaatgacta caagagtaat tctggattcc ttccagcact 120
 gttgcctgac cagggtccgaa agctaaagca gctcagcgtg ctaactctgg cagagtcaac 180
 taagatacta ccgtatgata agctcatgca agagtttagac gtttcaaata taagagaact 240
 cgaagatttc ctaatcaatg agtgcattga ttcgggtatc gtttagaggca aactggatca 300
 gctgagaagg tgctttgagg tacaatttgc agctggaaga gatcttacac ctgatcagct 360
 aaagaacatg atagagactt tgtctgattg gt 392

<210> 29839
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-F3

<400> 29839

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ttgtctcttg caaactggaa tggctgctgc tgccactgct attgctactc cgtccgtggc 120
gccggaggcc ggcgaccgga aggcgggtggc accgccagtc gacgcggtgg atctggagct 180
ggagctggag ctggaggaga agcacgtgct ggcgggtggac gacagctccg tggaccgcgc 240
ggatgatgcc aagatcctgc gcagctccaa gtacagagtg acgaccgtgg attcggcgac 300
gcgcgcgctg gagctgctgg cgctggggct ggtcccccgc gtgaacatga tcatcacgga 360
ctactggatg cccgggatga ccgggtacga gctgctgaag cacg 404

<210> 29840

<211> 169

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-F4

<400> 29840

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acgggggtgt gactactgta ccagaaatga ctgctacagt gattgtggat tccttcacc 120
actgttgctt gaccagggtc aaagggttaa gcacctcata tcgctaact 169

<210> 29841

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-F7

<400> 29841

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tggtgacttc aggggttgga gatatcaggt gagcgaaacg gtgaacatat tttcacatag 120
agtgaggtgg actaaagggt cccgtggcat catcaggatc gttccccaga aaggggacac 180
gtgggccttg taccgtaact ggtcccccca ctggaacgag ctgacgcctg atgacgtgat 240
atacaagtac gagatagtgg aagtcgctga tgatttcact gaggagcgag ggctgactgt 300

catcccggtg ctgaaggttg ccggattcaa agccgtcttc cacagacacg tggatcccgga 360
agaggtgagg aggataccaa aagaagagct gttccgggttc tcgcaccggg ttccttctcg 420
t 421

<210> 29842
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-F8

<400> 29842

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gcggcctcgc ctgggccacg gacgaccact ccctccacaa cgccttcagc acctacggcg 180
aggctctcga gtccaagatt atcctcgatc gggagacgca gaggtcccgc ggcttcgggt 240
tcgtcacctt ctccacggag gaggcgatgc ggaacgccat cgagggcatg aacggcaagg 300
agctggacgg ccgcaacatc accgtcaacg aggccagtc ccgcggcggc tacggcgggtg 360
gcgggcgccc tgatggcggc ggcggtacg gcggtggcgg ctgcggtac ggtggcggcg 420
gtggctacg tggtggtggt ggcggc 446

<210> 29843
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-F9

<400> 29843

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ggccccgcag ctactgcggc tggcctcgct gagccgggca gggcccatcc ggcttgggct 180
cgacattggc ggcggcacgg gcacgtggc ggcgcggctc aagaagctcg tcaacgccac 240
ggtgctgacg acaaccatga atctgggcgc tccctactcg gaggcggcgg cggcacgcgg 300
ggtggtgccg ctacacgtgc cgctgcagca gcggttcccg gtgggggatg ggaccatgga 360

cgtggtgcgg gcggggcacg ccgatgaaccg ttggatcccc gaggtggcgc tggagttcct 420
gtggtac 427

<210> 29844
<211> 425
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-058-Q1-K1-G10

<400> 29844

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cccgtgatga tcctgcattt gttgttattc tgattctttt cctcgtgttt gcaacatcag 120
cttactgtgc agcatatgga gagagtgcct cacatgctgc tctaacaatc acttcggttg 180
tgtttctcca tttcttggtt gctgggatag ttttgccac actttgctgg ttccttaca 240
attcttactt gagagaggaa cctaacagcc atgttggtga gcaacgcgtg gagtggctct 300
atgcatttga cgttcattgt aactcgttct ttcctgcgtt tgtcattcta tatgtggtgc 360
agtattttct gtcgcctcta ttggtcgcgc atggcttctt tccagctttg ntatctaatt 420
tactc 425

<210> 29845
<211> 424
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-058-Q1-K1-G11

<400> 29845

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gaaatctgtg ctggatagag cgaccgagct actggcggat cccattccg cagccaacta 120
cagcagatca gcacgttcgc tttggcatgc gtcgtttgat gctttctttg gactgctgac 180
gaagtactgt gacagcaagt atgaaagtat cgtgcagagg tttgccatgc agggatccaa 240
ctccatggga ggacctgaaa ccaccaaagc agtcagcagg gagatgcccg ttgagctggt 300
acgtgcgagt cttcctcata ctaatgagca gcacgtcag acactgctag attntgctcg 360

gaaatctacg catctgcctg gtttcagccc tactgctaac cgtggacttg tcaattctga 420
atca 424

<210> 29846
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-G12

<400> 29846

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atctactgca tgccaccacg accttgtttc aagggttctg caccaatcaa tctttccgat 120
cgtcttaatc aggtgctccg ttgggctctt gggtcagtgg aaattctgct tagtagacat 180
tgtcctatct ggtatggta caatggacga ttgaagcttt tggagaggct ggcttacatc 240
aacactattg tatatccaat cacatccatt ccgcttattg cctattgtgt gcttcccgtc 300
atctgcctcc ttaccaataa atttatcatt cctgagatta gcaattatgc tgggatgttc 360
ttcattcttc ttttcgcctc catttttgcc actggtatat tggagctcag atggagtggc 420
gttggca 427

<210> 29847
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-G2

<400> 29847

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ggggtggcaa gtagctagga aggagagccg gaggggaaggg caggccatgg cgctggaagc 120
ggtggtgttc ccgaaggagc acctagcggg cactgccaaag gcgcgctcgg cgtcgtcact 180
ggcctgcggc ttccgcaccg aggaggtcga ggacaacggc ggtgtgggtc tgcaaggaga 240
ggccggcgcg gccaccacgt gagagtactg ggacgcggcg ctctgcccgt gctccactgc 300
acctgctggt gccgtggagg agtgctggta cgtgcggcac cggctttccg cgtccccacc 360
ggcgacggcg cccttcgccg tcg 383

<210> 29848
 <211> 321
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-058-Q1-K1-G3

 <400> 29848

 gtggccccgg acatggatcc cccctcgccg aggggtgtccg gctgcgccctt atgagccgtc 60
 gggcgcgggg gctctggcgg tactggccgc agggcacagg cacgccgtcg gtccaagccc 120
 aggaagaagt gacggcgtag caacacgtac gtacgtgcgg tacgttggtg gttgtgccat 180
 ctgtaaagtc cgggccatgg ttgttcgtgc gtgtacatgt ttactatact aaatactatg 240
 ggcatatata gatgagcttg ctactcggtg atcgggtatac gtacgccatt atttaaggca 300
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<210> 29849
 <211> 344
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-058-Q1-K1-G4

 <400> 29849

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 gggggattcc ccatcagcat gtccaccgac tgcaacaaga tcagctaagt tacgacgacc 120
 aagctaataa gcctaccgaa cgtacacgta cgtcccgccg gctgcacgag tgatgaagcc 180
 aggaagaaa taaaataaag ctagctgtat tgccaggagc agcatgcagt atcgatctat 240
 atatatactg tactgtagta ctctattata tatgtatgtg tggcctgcag tgcgagttgc 300
 ttcgatccac ctacttggtc agacagttga aaaaaaatct aaat 344

<210> 29850
 <211> 407
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-058-Q1-K1-E9

 <400> 29850

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ggataagagt gaggttgaaa cctcacaagt tgcgggctct gattcaatag tcatagaaag 120
ggtggaaaca aatctgagca aggaaccctt tctgctagtt cccttggaat ataaggaaga 180
gaaagagtcc cttggtataa tttgttatct tgaaaataac aaggttgatg ttcctgaggc 240
cttctctcca aggagagata tacttgaatt gtcaatctct agcaagtcta ctgatgatag 300
tctttcattg ggttgtgaga caccacgtga aagcatcttt gatccatttg ctccaggacc 360
tgatgaggca gcctgtgcac caaagaagaa agtgactaga ggtgctc 407

<210> 29851
<211> 312
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-D11

<400> 29851

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ttcacaaatt tagcaactac tgcataaaca gggttcgtct tccaggcagc cgtgccaaag 120
ttcatccagt ttcgtttgga ccagctagc agcagcactc ttcctgccag tggaaatgtg 180
tcagtctcac aaagcctcaa tgtcactaac aaccagcatt ggcagaaacc acttgcaatg 240
cggattctga tgtggtacaa agtgcaagtg gtgaaaacag gctggagcaa gggcaaatca 300
gcaacttttc tt 312

<210> 29852
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-D12

<400> 29852

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ctagttctcc aggcccttct ggtctctgcg gccgtggcca aaggacctgc atggccgacg 180
acgaagaagc agtgctggtg cggcgagtgc accagctggt cgggcgtgtg gacctgcgac 240

gacctctca ccaagtgcgc cgtcacctgc aagaactgcg tccccgtgtc cacggacaag 300
 ggggccatca agtacagggtg ccgcgacttc ctccccgaaa actgcgggtg caagatccac 360
 tagagactca tccaattcca ccatggccgc gcgccacagc ggcacagccg atggatcctt 420
 ccatgt 426

<210> 29853
 <211> 451
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-058-Q1-K1-D2

<400> 29853

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 gctccacaaa agtaaccgct aacaaaaagc tagagttgct tgtggttgat gaggctgccc 180
 agctgaaaga atgtgaaaca ctgatccctt tgcgtctgtg gaccttaaag catgctgttc 240
 taattggaga tgagtgccaa ttaccagcaa cagtcaaaag caagatgcat tatttgaag 300
 aagcctcttc gaaagggttg gttcacttgg gcacgaaaag catctactca atacgcaata 360
 cagaatgcat ncatccatta gtattttccc gaacactagc tnttatgaaa ggaaggatct 420
 cggatgcatc taatgtcatg gaaaaagaac c 451

<210> 29854
 <211> 393
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-D3

<400> 29854

cccacgcgtc cgccacgcg tccgtccacg cgtccgagcg accaaagcgg tggagagcac 60
 ggtgtgccgg acagcccatt cgcacccct acgaaatctg ctgcgctttt gcatgacagt 120
 ttcactgcca cggagaccga gaacaccgtc gcgtcccgtg ttggcgtgga tgccggtgtc 180
 gggagcaaga tcgacgggtg gagcaaccat ctccgcccc ccgcgttgga aatcccttcg 240
 cccagtcct acttcttccc catgcacagg ctgtcctccg atcacggagc catggggatg 300

taaagttcac cattgtaggc gagttatacc ctccaaccta gtcatagaat actagaagcc 360
aagaaaagcg atggtggaat atatagggaa aaa 393

<210> 29855
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-D4

<400> 29855

cgctgccgca cttctacccg gacggggact tccagatcgc gtgcgaccac ttcacgggcg 60
aggggagcga cctgaacaac ggcgccaacg gcgggttcgc gtacgtgcgg tccagcgcg 120
agacggccga gttctacagg ttctggtacg cggcgcggga gcgccacccg gggctgcacg 180
accaggacgt gctcaacgcc atcaagcgcg acccctacgt gggcgagctc ggcgtccgga 240
tcaggttcct cagcaccgag ctcttcggcg gcctctgcga gccagccgg aacctgagca 300
gggtctgcac catgcacgcc aactgctgca tcggcctgcg ccgcaagatc ggcgacctca 360
acgccatgct ccaggactgg aggcggtaca gggcgctgcc gcgcgaggag aagcgcgagg 420
tg 422

<210> 29856
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-D6

<400> 29856

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gggacctcac cgtggagatc gacgaagacg tgctcgatc caagaagagg aaggagctgg 120
tgggccagcg gagccctggc agtggcgctc cagagtacgg ctcccagtcc cagcagcaga 180
gcaggaggtg caccgcagat ggcaaggacc cgctgccggc ggcacagcag ggccagggcg 240
gcgagggtgt ctatgcccgg atgctcctcc cggcggggta cagcaggtat ggcgtgcagg 300
ctgagctcaa gtccggcggtg ctcatggtca cttgtcgcaa ggtcacggag cgagcgcgca 360
ggatgatcgt cgtctgtatt caagtcaagt agatatgctt gtatgtgtat gcacat 416

<210> 29857
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-D7

<400> 29857

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gcatatgcc aatgacgcctg agaatcttta gctgctcaaa gatgctggaa aatgctaagg 120
ggccccagcat gttttgcccc tgcgcgtcgg tacaactgca attctatagg atccagtctg 180
agattttgct cgtgttttgg gtttcccttg gacacaccgc tgctgatacc attgtagagg 240
gaggagcata acgtttccgt ttcgagtatt gactttgggc acttatagct gtcaagacat 300
gacctggttc ttgttagatt gtatcactag attgcttttg aattcgaacg aagtgttaat 360
cgtggggc 367

<210> 29858
<211> 474
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-D8

<400> 29858

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tgttggtcgc agtcgttcca cgccaagatt gcgatccgtt tctgagcttc gagggatcaa 180
agatcaagcg ttggcgacca agtgatccag ttcttcgagt tccacgagat taaagaccct 240
aagcatctct ttggtgaagg ttgccttttg tgcaatctat gtcaggtaa agaaggaggc 300
gtcgaggtgg ttctccagga gttccaggac ttcgacgagt tcgaggatta ggctagcgac 360
ctccccagc cagctgcttg tgggtgggtt atttacgttg gctacgtttc tattctgtgt 420
actttgatta tattatgtaa atgactctag tctttcatat tattacttac tctt 474

<210> 29859
<211> 421

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-058-Q1-K1-E1

 <400> 29859

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gggggtgctg gatcaagata aggataatgt ctcaagtcta gtgcagcgtg ctctccttta  120
tgaaagcaca gagaaatata ggcttgggtgc cgaggacctg cgtttgggttc tgaagattga  180
tcctacaaat aggctggcca ggagtacaat tcaccgctg aacaagttgg ctgactaggg  240
atgtctttct agcgccctga tgtaatatgt tactaccact gtactgcata cttctcacat  300
gagatctgtg agttatttga actctntagt ctttattact atacttgggg ctttggggga  360
atagtttgca attgtgttgn tattaagtat gaaatacgaa ttacataca atatattatt  420
t                                                                    421
  
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<210> 29860
 <211> 324
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-058-Q1-K1-E10

 <400> 29860

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ttaatactac gactgctaca gaggaacaa gatacctgta ccgatggaat atgattcgtg  120
tattattcct tgggaacttg aacttatcat atggagttgt aaattatttt gtcatttcga  180
cttatgttca cttcatcatt gccttgtatg atcatgtaat tcagagaccg cagagcaaag  240
gtgggctggg gcttagggcg tatttggaag caaagtattt taaaactata gttttagaat  300
aatatagttt taagatgtta cgac                                     324
  
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<210> 29861
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-058-Q1-K1-E11

<400> 29861
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 atcgctgccc cgctgcctt ccggacttcc cctcataccg cctcctcctt ccggccctct 120
 caccgaggcg cagtcgctcg tggcccccg cctcggcgcc gccgccgggc cagccatgga 180
 gctcatggcc gtccctaaga agaaggtctc caagtacaag aaaggtttga ggaatggacc 240
 caaagctttg aagcctgtgc cgggtgattgt tcgttgccagg tgctgcggcc gagtgaagct 300
 accccacttc tattgctgca gtggagaaaag aggaaaccca agcgagtcga actcataaat 360
 gttttgtttt cctactttgc tcaactatgct acgtctgaaa tctggacatc gtaataccaa 420
 tgaaataaat t 431

<210> 29862
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-E12

<400> 29862
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 tggatatattc tataaaccta aaagtgcaga actggtgcag aatgaagtaa tactgtacaa 120
 tgatttagta caaaaatatg ttccctagtga taatgtaa atgtgctctgg aaaataattc 180
 ttcaacagaa gaagacaaga atgcagagcc agataatagc aagcgtggag atccaaatga 240
 tccacgcgtt agattgaagc gggactgtgt tggtttactc gcggctttca agcttaatga 300
 tccttgagat caaagtttga ttgtggcaaa cacacatatt tattgggacc cacaatggat 360
 cgatgtaaag ccggctcagg caaaatatct tctttcgaga gtatctcagc ttgagca 417

<210> 29863
 <211> 237
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-058-Q1-K1-E3

<400> 29863
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ggggatctgt ttgatgcctt tgctagaaca tatttgtggt tagaactttg tcagaactac 120
 gtgcaatctg tttgaatgct tcaaaccttt gtggtggaac ctttgtatgt ttgaacctct 180
 attgtggaag aactagtgtg ctggaatgat gtatgacttg tgatgagaat gttgtgt 237

<210> 29864
 <211> 242
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-E6

<400> 29864

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 ataaattccg tgaccagaag ctaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataaa aattaaaaaa 180
 ttaaagtaaa acaaaaatga aaaaaatgaa cttttttata cagccaccta aactggaaaa 240
 ac 242

<210> 29865
 <211> 290
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-E7

<400> 29865

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 gcgtacagta cgtagtacca tggcgaagaa agtggccact ctgctggccc tcaacctcct 120
 cttcttcgcc ttcgcccacg catgcggctg caggtgcggc ggatcctgcc ctagtccagg 180
 cggcgggtggc ggtggcgggtg gaggatctgg tgggtggtggt ggtggaagcg gtgggggtgg 240
 gagtggaggg ggtggatcgg ttggtgtgag tggaggcgga ggatctggtg 290

<210> 29866
 <211> 474
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-E8

<400> 29866

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atctttttgtt gctcgcttgt ttctgggtcc tgtcaacatg ctccttgcta cttgatgctt 120

cctccgatgg actgttaaga atcaacctga acaagaagag actggacaag gaagctttga 180

ctgctgctaa attggcgaag aaggagagcc accttcgaag gtctgtgggt gctgaccagt 240

atctcagtgc ctcaactgat gacatagtcc ctttggacaa ctacctggac acccagtact 300

ttggacagat cagcatcggc acgccaccac agaacttcac agtgatattc gacactggaa 360

gctccaactt gtgggttccc tcatccaagt gctacttttc gatagcgtgc tacttacacc 420

ataaatacaa gtcaaccaag tcgaagactt acacaaagaa atggagaatc tttg 474

<210> 29867

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-D10

<400> 29867

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gctgtgctgc gtacagtacg tagtaccatg gcgaagaaag tggccactct gctggccctc 120

aacctcctct tcttcgcctt cgccgacgca tgcggctgca ggtgcggcgg atcctgcctt 180

agtccaggcg gcggtggcgg tggcggtgga ggatctggtg gtggtggtgg tggaagcggg 240

gggggtggga gtggaggggg tggatcgggt ggtgggagtg gaggcggagg atctggtgga 300

ggcgtgagca gcggtggagg cggcggatct ggtggtggtg gaagcgggtg cggcagcgga 360

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<210> 29868

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-B3

<400> 29868

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ggcgtgctgt gcacggaaag ttaccagca gatcgatcgg actaggcggg tatgacagga 120
tccagagggtt gctagccatg gcggaggaag catctgcgcc tgcggcgga acagaagctc 180
cgtcatggat gatgactatg gtgttagggg tacacaagag cgatcacagc tcttactcgc 240
tgcaatgatc actgctgcac tttttccgt caagccatat cgcacagtc cgctgctcg 300
cgtcacgcga aataccaccg acggtgcga ctgtggcctt gacgggtcaa acgctataga 360
tgtgct 366

<210> 29869
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-058-Q1-K1-B4

<400> 29869

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cagctccagg cataccctat cgagcaacta tttggccaca gttgctcaa atacttcaa 180
aagcatgggtt tttgatagaa attggcagaa aaaggccatt gtttcagtta tggaagctgg 240
tggtgtcaat tggttagtag aacttctaag gggtattcga agattgaatt tgaaagagca 300
gtggactgac ttgtcactcc actntataac tttgtactct ctgaagtcaa ctatatctga 360
aaatgttcgt gcacaaaatc atttcagaag tataggggga actggagggtc tattaatgg 420
actgggact 429

<210> 29870
<211> 474
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-B5

<400> 29870

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ttggctctga ggacgggtcca agggttctga aagccgtccg tgcagctggg gaggcctctcg 180
tcgatgattg gagctgtctc aagtccacgg ttctactttt tgaggcgcaa tgtgggtcgt 240
tggcgagta tgggatgaag cacatgcggg ccttcgcaaa catctgcaac gctggcatcc 300
ttctgaagc agtgtcgaag gtcgctgtc aggcttgac cagcattcct tccaaccct 360
ggagttctat ccacaaaggg tttagcgctt aagaatcata aggtgaggcg aaatatttca 420
gccgctccac cgcaacgaac tgggttacat taccagtcct caaggggggc ctag 474

<210> 29871
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-B6

<400> 29871

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gcaacatgga agatatagaa gagggatttg aaggttacga ggatgaaagg tctactgtta 120
tgtctcagaa gagcttggag aaacgctttg gccagtctcc aatttttatt gcatccacct 180
ttatgactca aggtggcata ccccttcaa caaaccagg ttccctgcta aaggaagcta 240
tacatgtcat tagttgtgga tatgaggata aaacagaatg ggggaaagag atcggatgga 300
tatatggctc tgttactgaa gatattttaa ctggtttcaa gatgcatgca agaggttgga 360
tatccatcta ctgcatgcca cttcggcctt gcttcaaggg ttctgctcca attaattttt 420
ctgatcgtct c 431

<210> 29872
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-B7

<400> 29872

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aggagaagct cgccgggttc tataacatgt tgggggttaa ctactacacc tcacggttct 120
ccaaaaacat cgatatctca ccaaactact cacctgtgct caaactgac gacgcctacg 180

ccagtcaaga agttaacggg cctgacggga agcccattgg tctcctatg ggaaatccat 240
 ggatctacat gtaccctgag ggcttgaagg atctccttat gatcatgaag aacaaatagc 300
 gaaaccacc tatctacatc acggagaacg gaatcgggga tgttgatacc aaggagacac 360
 ctctacccat ggaggatgcc ttaaagtact aaaaaaggct agattacatc cagcgccaca 420
 tcgctactct taaggaatca atagacttgg gatcaaatgt g 461

<210> 29873
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-B8

<400> 29873

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 gggagctcca tcaggttcct ggggtgcaca gtagatgaag tgatattgtg agagcccctc 180
 cctgtcccca gccctggggc tcgtagcgga tcgtgagggg tgaatttgtg tgtggtgtgt 240
 cacaggtgtg aatgcctttg ttgtcccaat attcctaccg tgttgggagt ggtcgtttgc 300
 tcgcgtccac gtctttcaca tgaattgggt actgtggtag ttgtagttct ggatacggga 360
 caaaaactaa agtattgctg tcaacaatct gcaacagtcg 400

<210> 29874
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-C10

<400> 29874

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 ggatgataaa tataacacag agagtgtgtc agaagaggtc cttgaggaga tgcgaaacatt 120
 gatgaccaag gaatcaagcg atgaaactct ggggaacacc tttctactgg atgatgaaat 180
 tagcttgccc atatcacttg aggagatagc agattctatg gatgccaaag aatttcagaa 240
 tgttgcccca ccacaagagc ttactgcaat tctgccttt caattcttga agagctaagc 300

cctggaaggc ctaggcctac gttgctgcac gggcatacgc aaatacatct agattcttcc 360
atcagatggt atagggtttc aattctcctt gtgctgtgta attattttgt 410

<210> 29875
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-C11

<400> 29875

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gggatcataa atataacaca gagagtgtgt aagaagatga acctgaggat acacgaacat 120
acatgaacaa tgaaccaacc tataaaacta atacggaaca cttttgtact ggataatgaa 180
attagctagc ccatatacaa ttagaacatt acaaattcta tgaatgctac aaaattttta 240
actgtaacca tatcaaaaaa acttactaca atctgtatct tttaaaaata gaatagctaa 300
aaacatttaa gactaaacct actttga 327

<210> 29876
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-C12

<400> 29876

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aaacaccctt gcttcccttc ctgectgcac accacatctc aatcctttgct gcgagctccc 120
gatctgtggt acttccggca tcgcgaactg aagtttacca ccgatccgtt ggctccttgg 180
cattcctttt cctccagcag cggcaaagcc tccatctttt tgccaaccga cttgaggaat 240
ggggtgcatg aagctgcttg gagtagactc aagctttatg gaagatttct agtacttcat 300
tccaacaag caatcagata aaaacaaaag gagcaacttc aacagaacct gctgctccag 360
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<210> 29877

<223> Clone ID: LIB3067-058-Q1-K1-C5

<400> 29879

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agctcaacat atcacacgga tagaagagca agacgtccga cggcacctgt acctgcatag 180
acatcgtgct ggccattatg ctgccgcggg ttgcacgaat gttcaaggcc tgctgcctgg 240
tagagttctg gatctgactt atgcttacat tgttcgggta cctaccgggc atcatatacg 300
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<210> 29880

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-C7

<400> 29880

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gccacgcgtc cgatgaaggg aagccattgc ctctaattca gaaagctttt attggtctga 120
ctgctggagc aattggtgct tgttttggtg gtcttctgta tctggcactc attagaatgc 180
aagccgactc gaccctgcca gctgcacaac gacgcaacta taagaatgct ttccatgcac 240
tctaccgtat cagtgtgat gagggagtc ttgcgctttg gaagggtgca ggtccaactg 300
tggtgagagc tatggcactc aatatgggta tgcttgcttt ctatga 346

<210> 29881

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-058-Q1-K1-D1

<400> 29881

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gcaggtgcat gatgaagtga tactggaagg gccttcagag tctgcggagc tggccaagtc 180

catagttggt gagtgcattgt ctaagccctt ctatggcacc aatatacctga aggtcgacct 240
 tgctgttgat gccaaagtgtg cacagaattg gtatgcggcc aaatagacct gttaagtgtc 300
 ccagaagggc gtcaattcct tcggtgaaac tcggcggatt ttgaactggg atctgctggc 360
 tgctgctagt agcctagtga gctcatctgc acgtggatgc catgcactga ttatntcggg 420
 gttgatctgg acagtg 436

<210> 29882
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-B12

<400> 29882

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 gtttttttgg atgggatgac aaccatattg tttgaaagct tcagagttct gatacagatt 120
 agtccagatt cctgatcaac tcaaaacaca agccacttca tatgcactgt gccaccttct 180
 gatacaaatt ctgtggccaa ttccggctca tggtgcttgc tacaagggtt gcgatctttg 240
 atttgacagc gcgcaaggct ccatcagtat ctctaactgt gtcaatgcaa tttagagcaa 300
 ccttcaggag atctggcacg caagcttgaa catgggggtga caagttcctg aaaatgtcaa 360
 cagtcacatt tggagccttg ggggtccaaat gaaggaaggg tagcctgatg gtttccttca 420
 aagca 425

<210> 29883
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-H5

<400> 29883

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 catgttagca gctctcatgt acgtccttgt accaatgcca tgcctgtttt ttgggtggtg 180
 atccacacac ttcttgacca gcagagaagg tggagggtgg attaattgctg caaaattctt 240

gactggtgcg tcggccatgg gaagccttgc tattccagca attctgagggc atgctgggct 300
aatcgagacc ggggccatgt tcatcgagtt caggtccttc ttcacacctg tatgcacagt 360
gctgtgcttc catagggcga ctctggatga agactggtaa atgcgcattt caccgacacc 420
ctgaacccta acgtttcttg g 441

<210> 29884
<211> 305
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-H6

<400> 29884

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ccccggggga ggaggtggcg gtggtggttag cgggtggacgc ggtggttacg gaggaccagg 120
ctatgggtcc ggatcagggg atggtgaggg ccgtggcagc ggaagtgctg ctggagggta 180
tggacatggt ggcggccgcg gtggcggtgg tggtaggggc tcgatagctg gtggctctgg 240
gtacgggtcc gggcaatgat ctggctaccg agctggcagc ggtgcttgcg ggggatattg 300
gagtg 305

<210> 29885
<211> 405
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-057-Q1-K1-H7

<400> 29885

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ggcgctgatg gagctaggtg ctcccgctca tagttttcac aagatgggct gccaatccaa 120
gatggtaatg atatgttgag tttggcattc catcaacaaa gaaactgtcg cgagatgcat 180
tggaggctct ggaagtttca caacaacaca caaaaaaagt cttcccaaaa gaagtcccag 240
tcgacctata gctatagtcc tcattcttga cgcttcaggt tcaagaaaag gaactttatg 300
atggaaaaat ggacttcaat ctgctcaacc cttncatgta ctgtgccggc cgagatgtgc 360

ttggtcgctt gtggttgaaa ttccagatca agagctctgg aatct

405

<210> 29886
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-H8

<400> 29886

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tgcaccagag acggagagggc tagtcgttat gaggggagac tacagcaaaa tggacacata 120
ttatgtcatg cccaatggga agcgtgcaag gtgtgctggt gatgtggata agtttctgga 180
ggcaaaccg gagtacaag accgcacatc tgcttcggat ttcagctttg cgccacccaa 240
ggttggtgag gagactgttt ctcaaaccc tgcttgcaa gctgccaagg ccaagaagca 300
ggagaaggca gaagcacaaa agtgaatgat actccaacc gtgcttgtgt catgtttagg 360
tgatagtcg ctcaagatca tgcccatcc tatctagtgt gtacttgtct atcttgactg 420
aagtcgatgt ttaggtcttt tta 443

<210> 29887
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-A1

<400> 29887

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tacgtggaaa gatgagcacc aaggaggtgg acgagcaaat gatcaatgtc cagaacaaga 120
actcgtccta ctctgtggag tggatcccca acaatgtgaa gtccagtgtt tgtgatatcc 180
cgccacgcgg cctctccatg gccttcacct tcattggcaa ttccacctgc atccaggaga 240
tgttccgccc tgtgagcgag cagttcactg ctatgttcaa gaggaagct ttcttgcat 300
ggtacactgg tgagggcatg gatgagatgg agttcactga agctgatagc atcatgtacg 360
atctggggtc tgagtaccag cagtaccagg atgccgctgc agatgaagag gaatacagg 420
actaggagga cgtccatga 439

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-A2

<400> 29890

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ttggggcgcg gctcgtcca ctttcagcag aacagggggc acggccccgc cgccgtcgtc 120
gccgccttca acagccagct ccagggcacg caggccatcg ccatgacgct cttcggcgcc 180
gtgccgcccg tgccctccga catccttgcc aaggccttcc gcatcagcag cggcgaggtg 240
gaccacatca aggccaactt cgcgccaat tagagatcca acgtctgcat tccttgatt 300
tgctcaataa taaatccccg cgggtgtgcat ttcgattgga tcgtcttcgg ttggtttgct 360
tcgagacatt gctgaccgcg cttgtcactg ctaatttgtg cggagcggag gagttgcttg 420
tgctccgat 429

<210> 29891

<211> 467

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-A5

<400> 29891

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ggaaagatga gcaccaagga ggtggacgag caaatgatca atgtccagaa caagaactcg 120
tctacttcg tggagtggat cccaacaat gtgaagtcca gtgtttgtga tatcccgcca 180
cgcggcctct ccatggcctc caccttcatt ggcaattcca cctccatcca ggagatgttc 240
cgccgtgtga gcgagcagtt cactgctatg ttcaggagga aagctttctt gcattgggtac 300
actggtgagg gcatggatga gatggagttc actgaagctg agagcaacat gaacgatctg 360
gtgtctgagt accagcagta ccaggatgcc actgcagatg aggaggaata cgaggacgaa 420
gaagaggtcc atgacgagta aggtgatctt ggaccctgct gcatact 467

<210> 29892

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-A9

<400> 29892

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tgtcatttgg gctcagttcc ctgagtacta caacgaaaag aacaccataa tgtttgatga 120
tctaagaagg aatttcgtca tgaatccaca gaacgggtctc gtgatcaagc cattcaggaa 180
agcgactca aacaggcatg atgatcacga gctggtaaag cttacacact acctgctttc 240
gatcggagac ctagaagatc tcagcaagct tgaccacggg aaatgggagt cttttgtaga 300
tgagagcgta aagagacgca agcgctctta gtttccgtca gtatagtgac tgtcagaaag 360
aaaaacagaa caccattttt cttttctttt cagtgtatg gatacctcgc agattagagt 420
aaccgaatga 430

<210> 29893

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-B1

<400> 29893

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accgtaactg aggaagttgc tccggctcgc accgtctccg aggagccggc gccggaagcg 120
gcgaaggagg tggaggagaa gccggaggag gggaagaagc cgcacgagga gggtagacgag 180
aggaagaagg ccgaccccg cgcggagaag gagaagaagg cgaggaagcc gcggagcatg 240
aagcccaagt ccgccgggct gcaccacccg ccctatttcg agatgatcaa ggaggcgatc 300
ctgtcgcagg acggcgggaa ggtcggggcg agcccgtacg cgatcgccaa gcacatgggg 360
gagaagcacc gggacgtgct cctcgccaat taccgcaagg tgctggcagt gc 412

<210> 29894

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-B10

<400> 29894

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agagccagcg gacggacgga gcacaggaaa gccggacgga cggacggagc cggacgcgcy 120
agatggagat ggcgggggcy gccgaagcgg acacgccgtc gcaggagccg gtgcgcacgy 180
gccggagcaa caccatcctg ctcccatcg gcggcatact cctggcctac ctgctctacc 240
gcttctccg cccgcgcctc cgcggcctgc gctcgcacct gccgcctgg ctgcgctgcc 300
gccgcgcgcc gaccggcggg ggcgcgcgtgc tgccctactt cgcgcccac gccgaccgcc 360
tcggcgccgt cgcgctgccg tacctcggcg ccttcgccgg cccgcaggcg gcgctcctca 420
ggttccccg 429

<210> 29895
<211> 341
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3067-057-Q1-K1-H2
<400> 29895

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gctctgtcct gcaacaatgg ccgctcgtc ctctcccag cagctggctc cggcggcggt 120
cctggcagcy gcgctgctgc tgctggcggc gggggccggg acggcgtcgg cggcgggtgag 180
ctgcggcgag gtgacgtcgt cgggtggcgcc gtgcctcggg tacgcgatgg gcagcgcggc 240
gtcgccctcc gcggcgtgct gcagcggggg gcgctcgtc aacagccgcy cgtcgtcngc 300
ggcggaccgg caggccacct gcaactgcct caagagcatg a 341

<210> 29896
<211> 452
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-057-Q1-K1-F2
<400> 29896

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agtcgattta tggatggaat caaatagca gtatttacag aaaagagtct tcgtttattg 120
ggaaagaatc aatatacttt taatgtcgaa tcgggattca ctaagacaga aataaagcat 180

tgggtcgaac tcttcttttg tgtaaggtg gtagctgtga atagccatcg actacccgga 240
aagggtagaa gaatgggacc tattctggga catacaatgc attacagacg tatgatcatt 300
acccttcaac cgggttattc tattccactt ctagatagag aaccgaccta aaggagaata 360
cttaataata tggcgaaaca ttatatacaa acacctatcc cgagcacacg caagggaacc 420
gtatacaggc aagtgatatc caatccacga aa 452

<210> 29897
<211> 288
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-057-Q1-K1-F3

<400> 29897
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tggaggcgcg ccttccgcga ccacttcgcc accttcatgg gcaacaccat cgtggagatc 120
caggtcggca tgggccctgc cggcgagctg cgctaccctg cctaccgga gagcgacggc 180
acctggtcgt tccctggcat cggcgagttc cagtgtctacg acaggttcac gctgagtagc 240
ttgaangctg ctgctgaggc cgtgggcaag ccggagtggg gcaacgcg 288

<210> 29898
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-F4

<400> 29898
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aagtaagctt gcagatgctg atatgacatt gttggtaaag atattgaagt cttggcctcc 180
acaaatgatg tttccagtca ttgattttct gagaatgttc gtgttgcatc ctgatggagc 240
ttctttactt ctcaagacca tcgaaactgg aaatgatata cttttggaaa cttttcgtaa 300
agctgttgcg tcgcctgtac agccagcaaa tatgcttaca gtcctcaaag ctgtgacaaa 360

cttgtttggc aactcatgct tgcaccagtg gctgatgacc cactgtgctg agatca 416

<210> 29899
<211> 238
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-F5

<400> 29899

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cctatatgtt gacgctgtcg ttgtacctgg caacgtgtaa ttaactgccc cggagacatc 180

tgtttttggc atctttaaaa cgtatggatc tcaataatat gacaagagtt gcctgctt 238

<210> 29900
<211> 306
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-G10

<400> 29900

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acatgtccat caaaaaaagc gatacatcta ctaaaacaca ccaacaaaat atctaaatca 120

actgaaatgc ctgtaacctg tattatccat agcatagctc actttcaagt attttgctat 180

ccttaacatt gataagacct ctttctttac accttctctt attccgtatt caatgcatat 240

accttaaatt tacccaactt tacaggattt ccaactgatt actttaaacc agattcactt 300

tttata 306

<210> 29901
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-G11

<400> 29901

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acgacgcctt cctccaggac aacaaccgtc tccgctcaca ggttgtgtcg ttgaccgaga 120
 agctgcaaga gaaggaggat gcgacggagg gcggcgccac cgctgacacc gccgcgccgg 180
 cgggtggacgt cgaggcttac ctggccgacg acgtcgagga gccagcagag cctgctgcga 240
 cgttcgaggt gctgcaggag gtgaagtccg aggacaggct gagcaccggc agcagctgca 300
 gcgcgatggt ggacgcagac gcgctgctgt acggcaagtt cgccgcggca agtgatagca 360
 gcgtggagtc ggacttgcac ggctgcgatg accactacca cgactgctgg ac 412

<210> 29902
 <211> 124
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-G12

<400> 29902

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 ctctcacaag agacagcgaa ttcctacagc agaacaacaa cctcctacac tcacagctta 120
 acat 124

<210> 29903
 <211> 460
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-057-Q1-K1-G2

<400> 29903

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 cccctcacc agctccgggt tccagcggcg gcggcggcga agatgatcat accggtgcgc 180
 tgcttcacct gcggcaaggt gattgggaac aagtgggacc tctacctcga cctcctccag 240
 gccgactact cggaagggga tgctctggat gctttggaat tgttccgcta ctgctgcaag 300
 cgaatgctca tgacctatgt tgacctcatt gagaagttgc tcaactacaa cacactggag 360
 aagactgaga caagttaagt gagcaagcat atcatgctct gaaagcacta ctgtttcgca 420
 gtatcatata tattgtaggc cgtatnngtg ttcttctcta 460

<210> 29904
 <211> 290
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-G3

<400> 29904

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 ccgcgttttc tattggttcc tagcttactt actcttgctt gcataccta acctttattc 180
 tagtgcccc taaatccttt tgattggccc tttttttcca actttatccc tgggaaaacc 240
 ttttcttttc ccactttatt cccttttctg cccttgctcc tttccattt 290

<210> 29905
 <211> 372
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-G4

<400> 29905

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 cacacaccg acgcccgaagc cgaccccacc gacgtacacc ccttccccaa agccttcgac 180
 acccaagccg accccaccga cgtacactcc cacaccgaag ccgccggcca ccaagctcgc 240
 cacctacact ccgacgccgc cgggtgtctca caccgccagc ccgccgccac cataactacta 300
 gaaagcgatg cctaccatac cacactgctg tcagtctctt gagcatttaa gtggtcctga 360
 tcaatggaag gg 372

<210> 29906
 <211> 455
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-057-Q1-K1-G5

<400> 29906

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 gctgtcgcct atgggtgtgc tgtccaggct gccatcctga gcggtgaggg caatgagaag 180
 gtgcaggacc tgcttctgct ggacgtcacc cctctgtccc tgggtctgga gactgctgga 240
 ggagttatga cagtgtgat cccgaggaac accaccatcc ncaccaagaa ggagcaggta 300
 ttctccacct actcggacaa ccagcccggt gtcctgatcc aggtctacga ggggtgagaag 360
 acccgacac gcgacaacaa cctgctgggc aagtctgagc tctccggcat cccccctgca 420
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<210> 29907

<211> 451

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-057-Q1-K1-G7

<400> 29907

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 cgcgcatgcg ttcttctctt cctcctagca tcccatctcg tcgtcgcca gccaccatt 180
 gttgttgccg ttgatatgtt cgcgtactgc tgctatctat ctgtcctcct tccaccgttt 240
 cttgttgctg atgacaaagg ttagagccgt aggtagagat gatatatgtt tagaggtgta 300
 cacaaggaat ngtgactcga caaaactttc tcggcttttc accatcgtgg gaggacgact 360
 tggatcgggc caaaagattg cagggccgag acccctctgc tcttgaacga tgatgccatg 420
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<210> 29908

<211> 259

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-G8

<400> 29908

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gatcgccgag cttctgagat accactccac caagagtggg gatgagctga ccagcctcaa 180
ggactacgtg accaggatga atgagggaca gaatgacata tactatatca ctggtgagag 240
caagaaggca acggagaac 259

<210> 29909
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-G9

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aacctgacaa aacaattggt actgaaccac atcatatatg gccaaactctg aatgatgaac 120
agtggttgaa ggttgaatgt gactaaggg acctcattct ttccgattat gcaaagaaaa 180
acaatgttaa tacttctgca ctcacacaat ctgaaatgcg agatatcatc cttggtgctg 240
aaattgctcc accatcacag cagaggcaac agattgctga aattgagaaa cagtcaagag 300
agacgactca gttaactgct gtaaccacat ggacatcaaa tgtgcatgga gatgaactca 360
ttatcacaac cacaagtcca tacgagcaac aagcattcgc atccaagact gattggcgtg 420
tcagagccat c 431

<210> 29910
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-H10

<400> 29910
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gcaccgtcca cctcacgca actgcctctt cgcggcggcg caaaacacca acacgtcttc 120
tccggttgcg aggagggat aggatttcgc cgcggcgaga tgtcggcgta cgacgaggtg 180
gagatcgagg acatggagtg gaacgcggag ctgaaggcgt acacgtaccc gtgcccctgc 240

ggcgacctct tccagatcac gctcgacgac ctccgcatcg gggaggagat tgcgcgctgc 300
ccgtcgtggt ctctcttctt caccgtcggt tacaacgccg aggaccttgc tgacgc 356

<210> 29911
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-H11

<400> 29911

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ctatgttcaa tataaccaa agcatatacc ttgcatat ctatgctaaa taacttacca 120
tattcatcga atcatatata gacttatact tatttcttag aaaataatga tccctcgact 180
caatagatat atattactca catcattacc catatctatc agcttacact tcaaaaatag 240
actgatctga ccattaacat atcagaacat agatcatata tctgacccat acatacttcg 300
ctgaaacaac ttgtatttat gtttcatgct 330

<210> 29912
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-F12

<400> 29912

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atgacgaagc gaaccaagaa ggccggaatt gttggcaa atggaaccag gtatggtgct 120
agcttgcgta agcaaataca gaagatggag gtatctcagc actccaagta tttctgtgag 180
ttctgtggga agtttctgtg gaagaggaaa gcggttggga tttggggatg caaggactgt 240
gggaagggtca aggcctgtgg tgcttacacc atgaacactg ctagtgcggt cactgtcagg 300
agcacgatcc gtcgctcgag ggagcagact gaagcatgat ccgctgcttg tcaggcatac 360
tggggtccac tatattggct gtgtagccga gacagtactt cagcattttt gggttatgct 420
ctaagatctc t 431

<210> 29913
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-H12

<400> 29913

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aaaatttgtg attttgggtgc ttctactgtc atttgttggt atgcttgect ttgccatcct 120
catatggggtt ggtagaggag acaatcctat cgattcttct ctactgaaaa gggttttattt 180
ggatgtatgt ttagtagtag ttattgtact tgggtggtgct ctggcatgtt acgggtgcagt 240
gttattctcg aagatgagca aagttcggtc tgaaactgta tcaactgaga agtggaaagt 300
tgccagttta gctgctgtct cgctgatctg tttctcgtct tctgctatac ttgcacttgt 360
gactaatgtt ccagtgtttt tgtattggta ttcaacagat gtggacatca tcaacaatgc 420
ttgtattttg gttatatatt a 441

<210> 29914
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-D11

<400> 29914

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ggttcagctg ctgataagtg caatgccatc aatagccaat gcaaggccta tctgagtgcg 120
atcatcatct atctttacgc acatgatttt cagcaagctc aaaaatgcta caatgactgc 180
tcagagggtc aagccttcct caatagcgac cagaatcgat gctcaacgaa cctattgtct 240
gcttatgagg aaggtgatgc ttagaagaatc aatcgcatg ctcaatcaag tgccttcaat 300
cacgctcgac catgtggtaa ttaggcttgc acggaagcta ccaacacgtg atctgcaggc 360
catcaattaa gctgacgatg cgctaggaat cctaggacta ggatgacctg acctataacg 420
atctccctag cc 432

<210> 29915
<211> 190

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-057-Q1-K1-D3

 <400> 29915

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 aagaaaaaaaa aaaaacaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaacaaa acacaaacaa aaaaaaaaaa aaagaaaaac aaaaaaaaaa acaataaac 180
 acaatgacac 190

<210> 29916
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-057-Q1-K1-D4

 <400> 29916

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 gtggacgcgc tgaagctggg cgtgtgcgcc aacttgctga acgggctgat caacgcgacc 120
 ctggggacgc cggccaggac gccgtgctgc acgctgatcc aggggctggc ggacctggag 180
 gcggcggtgt gcctctgcac cgtcctcagg gccaacgtcc tgngcatcaa cctcaacctg 240
 cccatcaacc tcagcctcct cgtcaactac tgccggcaggc gcgtcccctc gggcttccag 300
 tgcttctgac tatcacacgc ccatcgatcg atcgatctgg aggctaaata atttctccaa 360
 gctgctagta tacgtacgta cgttgatata tatgatgtag tattatatat atgtccatgc 420
 atctcgtcgt ctatcgcat 439

<210> 29917
 <211> 454
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-057-Q1-K1-D5

 <400> 29917

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gatgcattgc aaggaagatc tacctaaggc aaggcatcgg tgtgggtggc tttcagaaga 120
 tctacggtgg ccgccagagg aatggctccc gccaccaca cttctgcaag agcagtgggtg 180
 ctgttgacag caacatcctg cagcagctgc agattatggg catcatcgat gtcgatccca 240
 aggggtggacg cctcatcacc aaccatggaa ggcgtgatct ggaccaagtg gctggaaggg 300
 tcgctgttga agcgtgagca gtgtcatctc tgggtgtcaat ggtgtcatgt ttgatgggtg 360
 acaaggcagc tctctatttg ctcttggtgg ttaggatttt cgagctcaga tgaccttaat 420
 gtttattgca tctagctata gcgccacact attt 454

<210> 29918
 <211> 269
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-D7

<400> 29918
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 ggcgtcttgc tacacacacg ccgagcgcca ggccggctcc tccgcgccga gcgggcccac 120
 cggcgggccc accacgacgc cgcggcatcc tgccctgctc cggccatccg cgccaaacta 180
 ggtagcccga gccgagcgcg ccaaacgagg ccgcgatgtc gcgcagccgc ccaacgccaa 240
 acgcccagcc tcgcctagcg cgcattgcag 269

<210> 29919
 <211> 259
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-D9

<400> 29919
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 ggtccatttg aagaatcatg accctaacag cattacacaa ccacttcaaa cctgaatgct 120
 ctgaccccca tgcaactggt acactttccc tctccaagc tctagctcac attgcagaac 180
 acaatcaaga catcttgaca actcatcttc accaaatcgc caccaactcc accaccaaac 240
 cttatgacat cagcagctt 259

<210> 29920
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-E1

<400> 29920

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agatgccggt gacggcctgg aagtagctga ccttgctctc gacggtctcg gccatggccg 120
ccggcgacga gggctagggt ttgcagattg aggccagtgg tagcgttggg agttaggaac 180
taggaagagg ccagaagccg agagagatgc ggttgcgagc cgggagggcg acggccgacg 240
ggtcagtgtc gaactgctga gtgttgacgt cttctattct cctctctgcc gtcccggtag 300
attgaacggc gtgccgtatt actgcactcc gcgacaacgc gtcagtttct acgagatttt 360
attttacgac tgttgggcaa aggaaacggg cgaagaattc tgagaaccac atgac 416

<210> 29921
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-E11

<400> 29921

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tcggttccgt gggtgagcgg atcgagatgg ccgcgtcgga tggtgagtag cgatgcttcg 120
tcctgcgctt cagctggggc acagacgacc actacctaca caacgccttc agcacctacg 180
gcgaggtcct cgaatgcaaa attatcctcg atcgggagac gcagaggtcc cgcggcttcg 240
gcttcgtcac cttctccact gaggaggcga tgcggaacgc catcgatggc atgaacggca 300
aggagctgga cggtcgcaac atcacctca acgaggccc 339

<210> 29922
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-E12

<400> 29922

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tagtgccacg agaaatcgat gctgatgact ccgatgtgga gcctaaaagc gatgacgaga 120

gcgatgaaga tgatgatgac gacgacactg aagctctaataa ggcagagctt gagaggatta 180

agaaagaaaag agccgaggag aagcttagaa aggagcggca acaagcagaa gaggaggcca 240

agatgaaaga ggctgaactg atgcggggaa acccgttgat taatatcaac aatgctggct 300

ccttcagtgt taagagaagg tgggacgacg acgtggtatt caagaatcaa gcacgaggag 360

agaccaagac accgaaacgg ttcatacaac acaccatcag gagtgatttc caccgtaaat 420

ttcttc 426

<210> 29923

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-E2

<400> 29923

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tcgtgcaaag tacaactgaa ttcgagaaca aacttaagag catgatgttt cttttgcctg 120

atagaaagga tggcaagctg acccaatttg ttgatgatgt tgaagttcat tttgctgtac 180

ggaagagaag tgaaatcttg gtgaaagcaa ggaacattct tgtacaatat gattatgata 240

gtcctctgga atctggtgac caaagtgatt ctgttggtga tctacttttt cagccagaga 300

agtgttttac atctaaatca gca 323

<210> 29924

<211> 134

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-E3

<400> 29924

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atgaattatt attgttgcac acagactagt acttgctgac atcgtgagg caatatatct 120

tccattctgt tttc

134

<210> 29925
<211> 514
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-057-Q1-K1-E4

<400> 29925

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gggtccttac tcaaacttca tgtatnncag aaaaactctt tgcannttcg gtgcgtgcga 120
gcaagtattg gtgccatctc tgcaaccagg gtaccctcag tggtcagaaa atctttgtct 180
gagggctcca nnagatatgc ttctgtgata ttccggacatn ncttaggaaa tcgagttcct 240
gcagaatata tgccctcgga aattcgcaaa actaccagtc catcaatgcc ttgcatngga 300
gatacatctg tggcctcaag nagaggaaac gctcaacgat ccccttcttc cttttcggat 360
tagcccgttg ataatccaac ctgcaataat gtaaggcata ccaaaccattt cttcgaaagc 420
ctntttcaag tgggtgcccag atgtgatgtg gcgaaggatt ttcttggtc gaccctttca 480
tttcgtcgat ctcatactat tcttattcta catg 514

<210> 29926
<211> 157
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-E5

<400> 29926

tcgcacttaa aaaaaaaaaa taaaaaaaaa tataaaaaaa aaaaaaaaaa taaaaaaaaa 60
aagataaaat taaaaaaaaa ataaataaaa tacctataaa aaaaacaaaa tactacatta 120
atcctccatt atatagacta aaattaataa atttaaa 157

<210> 29927
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-E7

<400> 29927
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 ggcagttaaa attccttctc atctaagaaa aacttgagca taatgcattg caaggtacat 120
 ttaaaattta aagaccta at acctctgtgg ttcgtatgaa acaacgacag tatcttagca 180
 agcacataaa caatccacta acaactctat cacatcaacc aacagactgt atcctaattt 240
 aaggccaaag cattccttta cctaactttt ccattttaga gataagcagg gctgctgagg 300
 aatggcagtg cagcgagaga catgagcgta tccgatgaag cgtcacctt tctggcgtgc 360
 ttttgcctct cgagctgtat t 381

<210> 29928
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-E9

<400> 29928
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 tgggtcagca taataaaagg atgagctgcc ccgccatggc acagctcctc tccaataccc 120
 tgtactacaa gcgattcttc ccatattacg ctttcaatga gctcgggtggg cttgacagct 180
 aggggaaagg atgcgttttc acctatgatg cagtaggttc ctatgagaga accggttaca 240
 gtgctcaggg aactggatct actttgatca tgccagtcct ggacaatcaa ctaaaatcac 300
 caagtcctct attactcctt gtcagggatg ctgtcacacc attgtcggag tcagaagcca 360
 tcgatctagt taaggacgtg tttcgatctg caactgacag agacatctac act 413

<210> 29929
 <211> 184
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-F1

<400> 29929
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 tgagacagtt gggtaccta atctttatgg acagatgcta tgtgttgctt ctgtggcact 120

tttgtttaag ctaagttttg cggagacaag atacttatat atgttccgga tgaaattatg 180
gttc 184

<210> 29930
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-D10

<400> 29930

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aaggagtcag atcagtggag aaaatttgag cttttctgta gcgtgaatgt tgataataac 180
aggtcagtat gtgaggaagg tttatttggt tggaacggtg cattcgtgtc gtgttaatcc 240
agcaaatcct gtgtagggtta agtaacaagg cttctgtgct gttaaaaaata ttttactatg 300
tcatttcttt ggacggtttt ctgaactaat gtgtggttac cattatgcct tgttcggggt 360
aaaaaaataa aaatagggt gtc 383

<210> 29931
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-F10

<400> 29931

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gcgatgaaga tgatgatgac gacgacactg aagctctaataa ggcagagctt gagaggatta 180
agaaagaaag agccgaggag aagcttagaa aggagcggca acaagcagaa gaggaggcca 240
agatgaagga ggctgaactg atgcggggaa acccggtgat taatatcaac aatgctggct 300
ccttcaatgt taagagaagg tgggacgacg acgtggtatt caagaatcaa gcacgaggag 360
agaccaagac accgaaacgg ttcacatcaac acaccatcaa gagtga 406

<210> 29932
<211> 457
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-057-Q1-K1-B4

<400> 29932

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gatctatagc agggatagag aaaaagcatg caaaattgaa gggtaatgaa aaagctgttg 180
ttgcgcggca tgaagtaggt catgcactcg tgggaactgc tgtagcaaac ctccttcttg 240
gacagccacg tgtggagaaa ttgagtatat tgccaagatc tggaggtgca ttaggcttca 300
cgtacacccc tncgcgcaca gaggatagat atttactctt tgttgatgaa ctacgtggcc 360
gtttagtaac actactgggt gggagggcag cagaggaagt tgttttagca tgactggttt 420
cgactggtgc acttgatgac ataagacgtg ctactga 457

<210> 29933
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-B5

<400> 29933

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ggcgctcaa tcgcctcccg tccgcctgcg ttggcgacat ggtcatggcc accgtcaaga 120
aggggaagcc cgacctcagg aagaaggtga tgcccgccgt catcgccgc cagcgcaagc 180
cgtggcgccg caaggacggg gtctacatgt acttcgaaga taatgctgga gtgattgtga 240
atccaagggt tgagatgaaa ggttccgcta tctactggacc tatcggaag gagtgtgctg 300
atctttggcc taggattgct agcgcagcaa acgctatcgt ttgagagctt gttggaatat 360
gttcagactt ctatatgac atcttattat caggtgctaa aagggtatt gggcttaatg 420
ggccctttat gtttggtcac tcaattttgg agt 453

<210> 29934

<211> 406
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-057-Q1-K1-B6

 <400> 29934

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 gctttattgg aggaagatct tgaaaccctg aaggaatttt ttgtttctgg tggagatgga 180
 ctgcctcgtg gaactgttga aaacttggtc tcgcgtgtac gtccctgtaat aaatctgac 240
 aagcaagaga cccgcgtgct cattgatgac ctacgagaag ttactcaagg tggcaagaag 300
 caatttgag cggacttcaa aaccctnctt agggctcctgt gtcacagaaa tgattcagag 360
 gcatcacatt acgtgaagaa gccattcaag gatcccaact taactt 406

<210> 29935
 <211> 349
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-057-Q1-K1-B9

 <400> 29935

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 gctgtgctta gtttcttgtg cacgtgagtt gaatgcctca agggctggtg actttgtagt 180
 gtaagttatg caacgatgac atagattagc tattataaat cctaaatgag gtatgtatgc 240
 gcatgctgta ttgtagtgct gtagattcgg acttcgcaat tgcaactgat gctacacttt 300
 tggtcagtga tgatgccttt cgctgcaaaa aaaaacattt tataaaatc 349

<210> 29936
 <211> 452
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-057-Q1-K1-C1

 <400> 29936

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atgacagtga aaggagtacc tatacgtgct catacagcag cctcatggtc ttaatgatcc 240
tgaccacagt gcacaaattg aagatggagt tcagctacac caacatcatc aaagatctca 300
agatagatga ctgctgcaat gggacattag ttcatgaccc agaacttggt acaggtcatt 360
cagatacata gtgatca 377

<210> 29939
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-C12

<400> 29939

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cagctgcggt cgttcgtgga ggtgccggcg ggctcccact tccccatcca gaacctgccc 180
ttcgggggtct tccgccggcg ggggggtgcag gcgcaggctc cgcgccccgc ggtggccatc 240
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ctctccggtc ccccgctgctg tcaccaggag acgctcaaca tgttcttggg gatgggccgg 360
ccgtcgtgga gggaggcgcg cgccacgcta cagaaaatcc tatcagccga cgagccccgtc 420
ttgcgtgac 429

<210> 29940
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-C2

<400> 29940

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tgggttcccc aaatccggtg actccattcc tggtgttctt cacgtcgacc ccgggaacct 120
cccagaaggc tctagcgacc ccggcgctct gagtgtgtg ctgccggcgg cgagatccag 180

gagctgcctg ccatggtgaa ggacagcgcc tactacgacg tcctaggggt cagcgtcgac 240
gcgtcctccg ccgagatcaa gaaggcgtat tacatcaagg cgaagctggt gcatccggac 300
aagaatcccg ggaaccctga cgccgcactc aagttccagg aacttggata ggcctatcaa 360
gtttctagtg atcctgggaa aaaggaggct tatgattagt attggaagga gggttttccc 420
taagataaca tggatgatcc tgcttctgtc ttt 453

<210> 29941
<211> 260
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-C3

<400> 29941
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ggggaacaag atagctctca agttcgacac tgtgttttgg cccgacgttg aagtgatagg 120
tagggtggcc ccgacgtcaa acgcctgggg ctactttcta aaccttaaca aagccacagg 180
aaacccggtt ctggtgtgca tggatggccg aaggttcgag tacgagatcg agaagctgtc 240
ggacgaagag tccgtgaact 260

<210> 29942
<211> 210
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-057-Q1-K1-C4

<400> 29942
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tcgggtgaac ctagacgata taacaggcga attcaaccaa cttcaagggt actagagggc 120
ttgcaaagtt ccctcgtaat ctcgaaagtt cctggcgaga aggttcctag gagcaattac 180
aaaagtgcac tctcaagagg gagaactcaa 210

<210> 29943
<211> 330
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-C5

<400> 29943

aagatagctc tcaagtgtcg acactgtggt ttggcccgac gttgaagtga taggtagggt 60

ggccccgacg tcaaacgcct gtggctactt tctcaacctt aacaaagcca caggaaaccc 120

ggttctggtg tgcattggtg ccggaagggt cgcgtacgag atcgagaagc tgcggacga 180

agagtccgtg aacttcgtca tgtcccagct catgaacatg ctgccgcatg caactgaccc 240

ggttcagtat ctggtctcgc gctggggtag tgaccccaac tcacttggct cctactcatg 300

cgatctggtt gggagaccag ctgacctgta 330

<210> 29944

<211> 404

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-057-Q1-K1-C6

<400> 29944

ccactcttgt cctcgacctt gattctgaca ttttggtgc attctctgct gcatacgag 60

aacttgaatc tgtactttct ggattgaatg tgcttgttga gacttacttt gctgatgttc 120

ctgctgagtc ctacaagacc ctaacatctc tgagcagtgt gactgcctat ggttttgatc 180

ttgtccgtgg aacccaaact cttgggcttg tcacgagtgc tggtttcctt gctggaaagt 240

acctctntgc tgggtgttgt gatggacgca acatcttggc tgatgatctt gctacatctc 300

tcagcactct ccagtctctt gaggcttgtg ttgggaagga catgcttgtc gtatcaactt 360

cctgctcgct catgcacacc gctgtggatc ttgtgaacga gact 404

<210> 29945

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-C7

<400> 29945

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ctggacgttc agcatgtttc acttgtcata aattatgac taccaaataa tcgtgagctt 120
 tacatccatc gcattggtcg ctctggtcgt cttgggcgca aggggtgtggc gatcaatttc 180
 gtgcgcaagg atgacattcg tatactgaga gatatagagc agtactacag cacacaaatt 240
 gacgagatgc caatgaatgt tgctgatctt atttgagcac ctagaggatc aggcaggg 298

<210> 29946
 <211> 196
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-C8

<400> 29946

gccaaagagt gccatccata atgatatctc aggaaattgc taggcagcaa gagtgacatt 60
 agaactgaag ccaacaaaaa gatacataag agctatatac attgagactt atgactaact 120
 gtaaaaaatt cttaccagct aaatgctgac atgatgaact gtaatgaacc ctagagcacc 180
 tttcaatgga ctggtt 196

<210> 29947
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-C9

<400> 29947

ccacgcgtcc gggctgtgat agcaaagagt ctttgagagg attcaccgca gcaatgttgc 60
 tggcatggga atcatccctc tatgcttcaa agcaggggag gatgcagaca ccctgggcct 120
 aaccggccat gagcgctaca cgggccacct tccaaccaat gtgagtgaga taaagcctgg 180
 ccaagatggt accgtgacaa ctgataatgg gaagtcgttc acttgcacac tcagattcga 240
 cactgagggtg gagcttgctt actacgacca tgggtggcatt ctaccatattg tcatcagaaa 300
 gattgcggaa caatagattg tacaatttga gatgattgag atgcgggtgga tcgtaattgg 360
 tgtaaacgac ccatttttga gtacatataa taacctttga gtttctcaga gtgagctgtc 420
 tggaactttt agt 433

<210> 29948
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-D1

<400> 29948

atgtgagccg gcatcttcct aaacatacgc tctgttttct cgttcaccag gttctccgta 60
gggcgaactc gatagctatc aaatccaaat ctctgctttg gatctacagt tcagctactt 120
cttcggctgc ctcgacttga caaccctcta ccaatttttt caaaacgaac ttagcaccta 180
caaacacgta cttgattccc atattatcct caatcttcac acacaaaatt cacaagactt 240
ctgattaaga accttctaaa ctgatgatgt catacctaac gcacatgctg gcataaacag 300
ctaacatctt gaatgaccta acatcactct caactagtta cactaactca gttggcttct 360

<210> 29949
<211> 273
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-B3

<400> 29949

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gggcgctttt aaaagccttt agaaacccta aatataatac atgggcatta tcaactctaa 120
taatagtga tccccactct aagaaaaaag tgattcccc cgtcattgta ctacaactca 180
agccgagacg ccacaaggac agagtctaca tgtacttcta atataatgct tgattgattg 240
ttaatcccaa aggtgagatt aaaagttcct cta 273

<210> 29950
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-H5

<400> 29950

aatacccggg ctgccttgca gctttctgca gggagctgcg ccaacgatgg gcgtcttcca 60
ggacaccggc gtcggtggcg gcgccggcag ccgcacgtgc aggagggttt tccagtacca 120

gaagctggac tgctgctggg acgatggaac cactttcagg tggcggtgtc caccagccgc 180
 gaatggtaag aaggctgaag cccctgttt gttcagtgtc aggcgggtca agtggagcaa 240
 ggtcacctcg gttctgatac cgaagaaagt cgccgagttg tctgcaaaga tctgccacgc 300
 cggcgccagg acggaagccg tcgtctgccc ggccgtcgtc ttcattgtcgg cgtggggcct 360
 acctgtgctc ttccgcccgc tcttggtcgg ccacaacact tgcaggtatt accgtcgaag 420
 agacac 426

<210> 29951
 <211> 350
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-H7

<400> 29951

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 cagtcttcat cgagctcttc ttcactctga cgtcgatctg gcttcaccag ttctactaca 120
 tctttggctt cctgttctcg gtgttcatta tctcatcat cacctgtgcg gagatcacga 180
 tcgtgctgtg ctatttccaa ctgtgcagtg aggactacct gtggtggtgg aggtcctttc 240
 tgacctcagg atcatcagca atctacctct tctgtacgc cgggttctac ttcttacta 300
 agctacagat cactaaagtt gtgtcaagca tggctgactt tggctacatg 350

<210> 29952
 <211> 318
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-056-Q1-K1-H8

<400> 29952

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 tttccagatc agtggtggtc ttgctggaac taccaataaa actgttaagg tgccgaagaa 120
 cttcactctt aagactccag gccctgggta cacatgtggg cgtgctattg ttggcaggcc 180
 aacaaagttt ttcactgcgg atgggagcag ggtaacccaa gctctaataa catggaatgt 240

<210> 29955
 <211> 374
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-057-Q1-K1-A10

 <400> 29955

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 gactcctgca agcaattcgt tgtcccaaga agacattgag gccctcacca agaggacaca 120
 agatggtggg acagaggtgg ttgaagcaaa ggcgggaaaa ggctctgcaa cgttgtccat 180
 ggcatatgct ggtgctgttt ttgcagatgc atgtttgaag ggtctgaatg gagttccaga 240
 cattgtagag tgctcttttg tgcaatcaac tgtgacagag ttgccattct ttgcctctaa 300
 ggttcggctc ggcaagaatg gagtggaaga agtgcttggc ctgggtgagc tcaacgagtt 360
 cgagaagagg ggct 374

<210> 29956
 <211> 441
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-057-Q1-K1-A11

 <400> 29956

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 gaggacggag ggagtacatt gcacccatga gattaccctc tactgtctaa caactgaagg 120
 agcaagcccc agccctagat acacgacaca tacaaggtaa atgccaaaag ccaagttgcc 180
 tacacctaact actgcgtaca gcccagcct accagcgaca ttacacaatc agtagcaaat 240
 cggtatgaag actggatata gtggcatatg ttgagcttaa tatcaagagt cgtccagaac 300
 tcgagatgct cagtaaatgc caggaatgac tctgtatggt actttgttgc atgaaatctt 360
 gcagtacttg ccgtactttg atgagcaccg gtcacatccc ctctttgctc ggtcaaacia 420
 taatatagtc agaaagatca c 441

<210> 29957
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-A12

<400> 29957

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cgctgcctct cgtttctctt ttcaataatc aagatgagcc gtgggtggtag tgccggtggt 120
ggtcaaagct ctctgggtta tctcttttga agcggtgagc ccccatacc agcagtggca 180
ccagctgcaa gtgctccacc tggtgagaaa ccatctgctg caaagactga tgccggccaag 240
caggttgctg ctgggggttac cagccatacc aataactacc acagggctga tggtcagaac 300
actggcaact tacttacgga ccgtccttca accaaagtcc acgctgctcc tggcgggtggc 360
tcttccttgg gctacctgtt cgggtggcaac tgatgcccggt gctg 404

<210> 29958

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-A2

<400> 29958

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gggcgtgcag agagtcacgc tgcccgggaat gggccgtagt ggagctgcac ggcgtggtgc 120
agacgcaggc ctcttccgcc ggccgacattc ggggactcca catcggtcgc ctctgctcct 180
ccccctgccc agcctccgtc tcgtccaagg caggggttcac cttcacgggtg gggtagcacg 240
agctcgtcgg cgaaaagtg acgctcaaga agcctctgct ggtgctcagg aagaagaatg 300
ttaatgctgg tgc 313

<210> 29959

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-A5

<400> 29959

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gttgcaagat accgtacgaa atatcagggt ctatatatgc ttggaagttg gaacaatggc 120

tgctcagaag ggtaagggtcg gaatagtcct ggacttcaac tgtgacgagg ctcttacaaa 180
ctcacctgat gaccaagcat catcccaaag agcctgggac ttctacattg gctggaatgt 240
tgatccattg ataaacggac tctattcaca gataatgcaa gatctcgtgt aggagatgct 300
gcctaggttc acttctgagc ttgctaactt ggtgaatggc tcggcagact acatcggttat 360
caacgagtac acatccatct acgttaaggg gcag 394

<210> 29960
<211> 298
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-A6

<400> 29960

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aaaaaaaaata aaaaaaaagg caaccctttt aaaaaaatcc acaccttact taccatcca 120
ttcaacatca taacattttc tataatttta cctaaattta atttacttgc cttactttta 180
caacatctta acttgtaaaa cccttacatt acccaactta aatacctttc ataacatccc 240
cctttttcca gcttgcttaa tatccaaaat tcccaaacct atcgctcttt ccaacaat 298

<210> 29961
<211> 306
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-A9

<400> 29961

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cggactcgtg ggcggacacg tgggccgacg catgagcgga cacgtgggtg actaaggagc 120
tggtacctag ttcacacgaa atgtggactg ttaggaaagg acgctatctg ggtaggctgc 180
tgcgcaacac attgcgcaag accgcacaga gtctgagcta tcacaaagca gctagtaacg 240
ctgaatatga agacgacctg attggacatg ctgttcgtta gaggtagagg aagaccgaga 300
tttctg 306

<210> 29962
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-057-Q1-K1-B10

 <400> 29962

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 tgtcctacct gcaccgcac accgacagtt cttgcacagc tacagctctg tagagggata 120
 gtagaggatt cttatcatgc gttttgtatt ctgacctttg cttgttgtga gaccagtc 180
 acatgaagat gtttttttta tttgttattg atactttcac gacgttgaag catacaatta 240
 tatgcatcaa ggttgtcaaa gaaaggcca gcatgagaaa gctgaccaa tggtgcgcca 300
 aaaaaaata tatataacaa aaataagaaa aaaaaattaa taaatagaaa atgctatata 360
 caaatgccta aaaccaactc atcaatattg aggaatatta aaaaaaaaag ggctgccttt 420
 ttag 424

<210> 29963
 <211> 399
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-057-Q1-K1-B11

 <400> 29963

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 gggcgactcc gtcactcttc ctcttccgtt ccatttcaag atccctgcag ccgtccgttc 120
 atccatccat ccattccatc gttaagagga gaggggaagc cggccggccg gccggccggt 180
 ggagcggaga tgagggggca gacagagaca ggcctgtggc gaggaggcga cggcgctgcg 240
 gcgtggtggg tggccgtggt ggcctgcag ctgggccatt cactgagccg cgcgcggtct 300
 gggctgctgg agtccaaccc gggcctggcc tacaattct accagagcag ctgccccagc 360
 gcggagtcca tcgtccggag cgtcacctgg gcgcaagtc 399

<210> 29964
 <211> 340
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-H4

<400> 29964

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aattaatggg atgaagggga ttttgatcc tgtcaaagtc caatgtggac tggagtacaa 120
cttaaaactt gatggtgaag ccatggatat aagctaagca agaacgacca catacacaga 180
tgcccatctc caccagattt cgtgcatttt agatctgtac agtgtgagag atggattatt 240
ctttggaagg tacagaatct tctcgcatgt ataccggtgg atgctttggg cagaacttga 300
cagcgtcatc gcgaataata tagattctga atgtagacct 340

<210> 29965

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-B12

<400> 29965

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tgctgatgct gcatgttcaa tgtatacttt gtctctaaat cgagaagcta caccaaactc 120
tattgtgtca tctgagagat cagtcaagtc aatgactgaa cagcagttag atgaaaacag 180
tgaaaagcat gaagaaaata gtggaaggct tgaagaacat ggtggaaatc ctgttcaaac 240
ttcctatgat caaattgtta atggctgcag tggaagaggg aatagaaaat tctgcagtgg 300
aagaaggaaa ggaaaaggaa aatgataagg 330

<210> 29966

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-B2

<400> 29966

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cgtcgcgtgt gaccgagatg gcgctgccga atcaggggac cgttgattac cccagcttca 120
agctcgtcat cgtcggcgat ggtggaactg gtaaaactac atttgtgaag aggcatctca 180

ctggagagtt tgagaagaaa tatgaaccaa ccattggtgt ggaagttcat ccgttggatt 240
tcaccactaa ctgtggttaag atcaggttct actgctggga taccgcaggg caagagaagt 300
ttggtggcct cagggatgga tactatatcc atggccagtg tgcgatcatc atgtttgatg 360
taacctcaag gcttacttac aagaatgttc ctacatggca tatggacctg tgcaggtct 420
gtgaaaac 428

<210> 29967
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-F9

<400> 29967

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ggtgacccta gatatcaacc gatgcacgat ccatctcgat cctgtgatcg aataccggcg 120
taggtactac taataaagtc aggccccgtc aaatgcttta catggtgatt gaagtctgga 180
gcttctcagc accaccatat attgtgttca gttcttgtgt ttattgccat agctaccttt 240
tttttctctg atctacgagc tagacgtagc tttgtgcttg gagattccac tactatgttt 300
cctctgtcct gtgtatgctt taacggagat gcacgttgta cccgtggtaa tatatataaa 360
tttgcgttgt 370

<210> 29968
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-G1

<400> 29968

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ttcagatgat agacatgatg attgggcttt cgaggaggga ccacactctg actttactgg 120
gccaaattgt gggagtacag catgtgtagc attagtcaga aataggcaac tcgttgtggc 180
aaatgctggt gactccccgt gcgtcatctc aaggaatggc caggcataca atttgtcaag 240
agaccataaa ccagagcttg aggcagagag agaaaggata caaagtgccg ggggttacat 300

taaaatgggg cgtgtaaag gaagtttaaa tttgtcaaga gctattggag acatggagct 360
 taaacaaaac aagttcttgt cccctggata gcaaattttg acccgaaacc ctgacataaa 420
 cattgtcgag ctatgtgacg acga 444

<210> 29969
 <211> 373
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-056-Q1-K1-G10
 <400> 29969

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 cgcaaggacg ggggtctacat gtacttcgaa gataatgctg gagtgattgt gaatcccaag 120
 ggtgagatga aaggttccgc tatcactgga cctatcggca aggagtgtgc tgatctttgg 180
 cctaggattg ctagcgcagc aaacgctatc gtttgagagc ttgttggaat atgttcagac 240
 ttctatatga tcatcttatt atcagttgct aagagggcta ttgggcttaa tgggcccttt 300
 atgtttgttc actcaatttt gtagtaaaca gaatttgga taccaagggg atctatatat 360
 caatgtatgc cat 373

<210> 29970
 <211> 298
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-056-Q1-K1-G11
 <400> 29970

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 cggcggctgc tccgagatct ccttcctcga taactccgcc ccgccaccgc caccaccgcc 120
 tctaagcca ttcaccattg aggaccgccc gggcgagcag tgggcccgcg tgcgccgcgt 180
 gttccctgcg gccgaggggg aggaagagga ggtcaggggtg gacgccacgt tggtcgacgg 240
 cgcgctccct ccctcccgtc cgggcgcgga cacgggcggt nccgcccgaga tgcatatc 298

<210> 29971

<211> 255
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-056-Q1-K1-G12

 <400> 29971

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 ggaaaaggaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa agaaagaaaa aaaaaaatat aaaaaaaaaa aaaaaaagta 180
 cttgcgagcc aataaatata tataaatgg cctaatgca aaaaaacagc ccctggtaaa 240
 acaagggcac aacag 255

<210> 29972
 <211> 403
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-056-Q1-K1-G2

 <400> 29972

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 acctgagtag aaatagttct agaggcatac ggatgtatca ttcagtgaac ctctcgctga 180
 agttagcttc gctccacacg gtgcaggcca ttcttgggaa gttaggtata ggatcaagat 240
 tcaccattta tgttatgtta gctgtttaca atagcaagca taaactgcgg tcgtcgatga 300
 aaatggctng tgtgtgtatg tcttttcggt gttccgtgtc acagatcatt gtacagaaac 360
 gaacaatagt gctgaataaa gtgatctgag tgcaattttg ctc 403

<210> 29973
 <211> 382
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-056-Q1-K1-G3

 <400> 29973

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gagcatccgc gcgcgggggc tgagagcaga gcggcagggc gccatggcgg cgtcgggtggc 120
gctgagcagc gggcaccgga tgccggcggt ggggctgggc gtgtggcgga tggagaaggc 180
ggacatccgc ggcctcatcc acacagcgct ccgcgtcggc taccgccacc tggactgcgc 240
cgctgactac cagaacgaag ctgaagttgg tgacgcgctc gcagaggcat tccagaccgg 300
actcgtcaag cgggaggacc tgttcacac aaccaagctg tggaactcag accatggcca 360
tgtgcttgaa gcctgcaagg ac 382

<210> 29974
<211> 335
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-056-Q1-K1-G4

<400> 29974

gttgagtaca agaacattag cttcactgtc tgggatgtcg ggggtcagga caagattaga 60
cctcttttga ggcattactt ccagaacacc cagggtctta tctttgttgt ggacagcaat 120
gaccgtgacc gtgttggtga agccagagat gagctccaca ggatgctgaa cgaggatgag 180
ctacgtgatg ctgtgctgct tgtttttgcc aacaagcaag atcttcccaa tgccatgaat 240
gctgctgaga ttactgacaa gcttggatta cactccctgc gccagcgaca ctggtacatn 300
cagagcactt gtgccacaac ttgcgaaggt ctgta 335

<210> 29975
<211> 256
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-G5

<400> 29975

cccacgcgtt cgcccacgcg ttcgcccacg cgtccgtctg aatataacga ggaagataag 60
cgaggataac cagagtgtgc tggtttattg cttctcatgg gttgtaattt tcgttgtttt 120
actcgttatg aagaccgtgt gcgtgctgat cctgggctgg atcctgtttg actcggtcct 180
caccgtgaag aacatacttg ggatgctgct cgccgtgatg ggcatgggtg tctacagctg 240

ggccgtggaa gcggag

256

<210> 29976
<211> 408
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-056-Q1-K1-G6

<400> 29976

ggcttgtaga cgttccgagg aggaggggag gtacccgccg ccgcagccat ggcgtcgagc 60
aaggtccagc gtattatgac ccagcccatc aacctcatct tccggttcct acagagcaaa 120
gcgcgcatcc agatctggct attcgagcag aaggacctcc ggattgaggg tcgcattatc 180
ggattcgatg agtacatgaa cttggctctc gaagacgctg aggaaatcaa cgtcaagaaa 240
aacactagga aatcactggg ccggatactc ctcaaagggtg acaatataac tttgatgatg 300
aacagtggca agtgaagatt cttatggcaa gaacgatgtc tgggtgctcg ttcgattatc 360
tgggacacaa tgtacttcat tccatcgtnc agacttaaat gatgtatc 408

<210> 29977
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-G7

<400> 29977

ggaatacaaa gaggtccctg taaatcttgg gatagatgag ccaaagaaag ggagaaatgc 60
atggaatggc atgaggtacc atcacatgga tgcacaacaa ctgcgcatctg gtggatggat 120
tgctgtaatg gatggtgatc gagtcccttc aggtgattca accagacgct ctctcattgg 180
ttacttagct ttctgttgg ccagtgcctc tgctggtttt gtgggtttta tgaaagggtgc 240
aatcagttgt tacgttcctc ccagattatg ggttcctctc acaaggagaa cagaattatc 300
ccgtatcttc tacgtgcacc gcttcaacca gaaagtccgc agatattcta acagcatcag 360
cagatatatc tc 372

<210> 29978
<211> 422

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-056-Q1-K1-G8

 <400> 29978

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 tactgagtat gctgtaatag aatgctacga tacattatta gatatccttt acagcattat 120
 tgttgtacaa agtgataaga aagttgttga tagaatacgt gaaagcatca aagatagcat 180
 ccaccggaaa tctactcgtga aagaattccg attggatgaa cttcctcaac taagtgtctaa 240
 gtttgataag ttgctaaatc tactgaagga atatgatgag aacgatcctg taaatagaaa 300
 cacacatatt gccaatctgt tgcaggatat aatggaaatc atcacacatg atattatgaa 360
 aaatggaaaa ggtatttttg aagacgaggg ccaaaaacaa caactgtttg caaaattaaa 420
 tc 422

<210> 29979
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-056-Q1-K1-H1

 <400> 29979

 attggttttt gcttcttctc ttcctactgc tgtttcagaa acctagacct ttgagacaat 60
 gagacttggg gagagcctta tcaacatcta gaaagtgcaa gaaggctgca agttcatgac 120
 tgcagtcacc cttgtgggtt cggccgacag attcataaga cgatcaagta cagaacgcga 180
 tccttgagat atctaagctg atgtctcgaa tagttgagag cagccagtca gaacccaag 240
 agccttcttc accttaatct aatccttttg ctagatcgcg tgaaaattct acagcggagt 300
 aaacgccagc attacgtcga tacccttaag gtttcttacg cagcttgag agaggttcag 360
 cgtatatata tatatgcatt aattcgtttt gcttggccaa ggcgcacccg gtttttttga 420
 acttac 426

<210> 29980
 <211> 246
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-H10

<400> 29980

cggacgcgtg ggttgaattt gaagcctatg gctgccata tcttgtggaa taagatatgt 60
gtgtaatctg gttgtggaga tccaaaaatc cacgcagatg gaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaacia aaaaagaaaa aaaaaaaaaa aaaaagaaaa 180
tagagagaga gaattatctg gtacatgtac acatgagcaa cataacttgt gtaaatgatg 240
aattat 246

<210> 29981

<211> 336

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-056-Q1-K1-H11

<400> 29981

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aagcccggcg gcgagatccg cgcggcaggc ggacggggcc gctcgaccgc cttegtgccg 120
tgcgcgctt cccacctctt cggttctccg ctccccgcgc ccgcgaaggc gaattgctga 180
attgagggcg gtggctcgtg cttgattttg attttggggg tcggtttcag ttccaattca 240
tgacggcgcg gccgggggtgg gtgggtgaagg tggcgcatgg ctcggcggnn gngtggcagc 300
gcgtggcgcg ctacccggag acgctnccgg ctgacc 336

<210> 29982

<211> 411

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-056-Q1-K1-H12

<400> 29982

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atctgaggcg acgatagatg gaggcggcgg gatctctcgg tctgcagtcc tgctccacct 120
cgatggatga tgtctctcgg ctgataatta ttggatcaat ttcgataatt attagtagat 180

ctatgagata tgccgcctgg aagaggcgag gtaagctgca gcatgtaaaa aagagaaaaa 240
 agatgtgaca tcctagagga ggaggccttt gccatgatgg gtgcgctcgc atggcaggcc 300
 aggcaataat aaaaagatga ttattgcgtg ccggggggagg agatcgcacg gnggttgatg 360
 tttttggccc cggtttcttc ttctcatct tgttccgtgt tctgtatgc g 411

<210> 29983
 <211> 224
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-H2

<400> 29983

cccacgcgtc cggtctgaac actatttgct catgtttctg gaaaaaaaaa aaaaaaaag 60
 aaaaaaaga aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa atgacaaatc aaactaaac 180
 aaatgaacat aaatcaaac taaacaaat aaaatcttag aaaa 224

<210> 29984
 <211> 362
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-H3

<400> 29984

gggagatctt gtgctttcaa acaagttggt tgtctatgac ttggaaaatc aagtcacg 60
 gtggactgac tataactggt cgtcgagcat taaaattaag gacgacaaga caggcacaac 120
 ctatactgtc gaatcacatg acatatactc cggtatggaaa ttccactggc acaagtcctt 180
 ggttctgttg ttggaacaa tgggtgtggag ctatttatag tacgctaact ctattgtaca 240
 acacgaacac gcacttaccg aaattcattt gattcgtatt cttttcacia aaaagaatat 300
 ctagggtttt aacttgtgtt ctctgaccac ggaaaacgat gaaaacaaaa acgttgtgtg 360
 cc 362

<210> 29985
 <211> 326

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-056-Q1-K1-F8

 <400> 29985

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 ctaagccttg aaattaagta cgcacctgat cacttagagc aagcatactc actttaccat 120
 tgtcccagaa ttataattat tcaattcaac tttctgcgtc tgctgagtaa ggatgtacca 180
 gtgttgagc tgggtcatta tgggatttga gctcacttgg tttctgcgtg aatgtcaact 240
 gctgcagttt ttttggtcac tggatgactg ctgctgctgg ctggtcaggt ttgatatcga 300
 gaaatatcca ttgcattctg cgtttg 326

<210> 29986
 <211> 378
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-056-Q1-K1-E12

 <400> 29986

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 ggcatggagg ggaaggagga ggacgtccgc ctgggcgccca acaagttctc ggagcgccag 120
 cccatcggca cggcggcgca gggcacggac gacaaggact acaaggagcc cccgccggcg 180
 ccgctcttcg agcccgggga gctcaagtcc tggtccttct accgcgccgg catcgccgag 240
 ttctcgcca ccttctctt cctctacatc tccatcctca ccgtcatggg cgtctccaag 300
 tccacctcca agtgcgccac cgtcggcatc caaggcatcg cctggtcctt cggggcatga 360
 tcttcgcct cgtctact 378

<210> 29987
 <211> 290
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-056-Q1-K1-E2

 <400> 29987

 cacagttcca cgcagcagat cagagagtct gcaggtacgc tagcgatcta gctgccgctg 60

tgctgcgtac agtacgtagt accatggcga agaaagtggc cactctgctg gccctcaacc 120
 tcctcttctt cgccttcgcc gacgcatgcg gctgcagggtg cggcggatcc tgccctagtc 180
 caggcggcgg tggcgggtggc ggtggaggat ctggtggtgg tgggtggtgga agcgggtgggg 240
 gtgggagtgg aggggggtgga tcgggtggtg ggagtgggaag cggaggatct 290

<210> 29988
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-E3

<400> 29988

atcaaaatta tgtaatgaag agtagcactt attattgcta catgacgaag gttgagcatg 60
 catggaggcg agattataga cagacaccct gattttacac gacgaatcgc aagaagcgca 120
 tgcattggat atccttagcc ggagagggcg ctggtgttgt agacgaggag ggcgccgccg 180
 ccgaggatcc cagcgagggt gacggcccag atcagaagcc cagtgggtcc accgacgtag 240
 acgtcgccgg tgggagacca gtcacccctg ttgtagattg ggctgtatcc gtcgacgttc 300
 gcgccgtact tgtcgacgaa ctggtacacg cccttgccct tgccctttct cccgttggcg 360
 tcgacatcga cggtcaggcc acccccaatc ccgtagggct tgtcggtctt gatcttcttc 420
 t 421

<210> 29989
 <211> 242
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-E4

<400> 29989

ccgacgcgtg cgccgacggc tgacaccgat gttgacactg tgggtggatga cgttgacgag 60
 ggactaggg agaacgtcat ctaagatggg gactttccta tggagattag tatgagagca 120
 tgagatatat catgtgggcc gtactacgga tgctaccatt catgctatta ttcaaattct 180
 agttctacta ctagctctac tatcgtctat gctatcttgt agttaattgc gttgtcagtt 240
 gc 242

<210> 29990
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-E5

<400> 29990

tcggggcttc aaataaccag agatgaggaa agcgtttcaa cgcgaagcga gatggaaacc 60
 cagactcgga taagaattct aacaaggctc ggaagggtga agctatcgca tgagggttaat 120
 ttaggtacct tagctcgact aaagaagtaa catgttatgc cagcatgacg gacttcagta 180
 ctctccaagt ttctagaatc gacttgTTTT ttagctatcg gtttcatttt ggtcgatttg 240
 ccaccttatt cgatgatcgt tccttagcta taatgctttt gtaatggctt tactgtgatg 300
 cgaaggctca cccgatggcg tgtaatttga gcacaccaag cttatgcttt cttttcgaaa 360
 aggtgggagc ctttctattc aaaaaaatt gggatgtagg gcctgaattt tttttttt 418

<210> 29991
 <211> 374
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-E6

<400> 29991

gaccagctta aacttgaagc aaaagaactg ggaatgccca tggacgacaa ctcaggaacc 60
 gaccacaag catcatgagg atttgagata cagaggtggc aaggaagaag ctacgcttca 120
 tttgagtctg ggagctggac gtttcattag ccattgtgat tacctgtcct gcaattgtca 180
 tatgggacag tctgtttgat attgaaaaca atgtggagtg tgcttagcaa tcccatgacc 240
 tgtgtcctcg aaagcacctc gcagaggaag aatctaaatt cgtgtattgt tgtccgttga 300
 agtgcctaa cttgtggcaa gagaaatgca gctgatgtat gcagactctc cagttgacat 360
 tgagttctta cctg 374

<210> 29992
 <211> 365
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-056-Q1-K1-E7

<400> 29992

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gactcaccgc cgccctcccg cccctcacct gcccgcgga gtgtcggagt aaaccctacc 120
ggacctatcg tcacgcgact gcgggagttg cttgcttctt ctgccgtct ctcgctccgt 180
cccttcgcc catggagacc tcgctgcgct tgcgcagtgg cggcggcctc cgcattcacg 240
ccaaggagaa gctgcccctc ggccacagct cgctgctgca ggctcatgcg gagctcgacc 300
tncacacaag ccccgccgga gttactaccc cgagttatct cgctctcttt gtcaggcact 360
tctac 365

<210> 29993
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-E8

<400> 29993

cccacgcgtc cggacgcggt ccggttcaca cggcggcagc gggacgcgat cgctaagctg 60
tggaactcga tcaaggagca gcagatccgg cggaagcaag gcaagtcggt gagcgggaag 120
ctggacgtga acgccttcga gtacctccag gagaagtact cccgcgagaa gatgagcatc 180
cggcacagcg tgggcggcgg cggcgatcgt cgcgcgacgc agtggctggg ctaggccgtg 240
cgtgtgtgtg atggtttgtg cctttggctt catcagcgac acggcgtggg agttgtttgt 300
gcttgggttt tcgtagagga gaggagagag ttgacatgat ctttcccgtg gcatgtgatg 360
ggtggctctt ggtgtaacgt tacgtactag ctgcactgaa ctcggtgcat 410

<210> 29994
<211> 427
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-056-Q1-K1-E9

<400> 29994

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taacagattt cgtcttccag gcagccgtgc caaagttcat ccagttgcgt ttggaccag 120
ctagcagcag cactcttcct gccagtggaa atgtgtcagt cacacaaagc ctcagtgtca 180
ctaacaacca gcatgggcag aaaccacttg caatgcgtat ccggatgtct taaaaagtga 240
atggtgaaga caggctggag caagggcaaa tcagcaactt tccttctggg ttgtagtgcc 300
acctgtgtct atgngttgg ggttgcctt tcagcgtgct acaggcaagg cgtttgtatt 360
cttgttcttg aacattttca cttctgcttg cctgctaata agttgtgtac actggtagtt 420
gggtttg 427

<210> 29995
<211> 381
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3067-056-Q1-K1-F1
<400> 29995

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aacaaagttc atcctngat tctctttgtt tatgggtctg tcggtgccac agtatttcaa 120
cgaatacact tccgtcgcgg gctttgggtc agtgcacacg cgtgcaagat ggttcaacga 180
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ggacaggttc aggtccttca agaccgaccc gcgcagcgag gagttctact cctccccgtt 360
caaccctaac aaattctttc c 381

<210> 29996
<211> 431
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-056-Q1-K1-F11
<400> 29996

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gccgctagcg ccggcgcccc gcggcggtat ggaggctggt ggcgaggagt tcgcgatcgg 120
cgtggtgctc tccgcgaaga ccaccctggg ggaggagttc gagggccaga tcgtcgcctt 180
cgatcgacct ttcaacctcc tcgttatcca ggaggcggtg gggaggggcg agagcggaga 240
gcggcggaac gtgagggtgc tgaaggcgaa ctacatccgg gagttctctg tgctcagcaa 300
gggagacgac cctctcgatc ctgccgggtg catgctggac cttaaactca tttatgcccc 360
ggaggatgct gcactcaggc aagcagagat tgaagctgag aaaattggtg ttggtgtcac 420
cccataagct c 431

<210> 29997
<211> 286
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-F12

<400> 29997

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gttggtccga ccaaaccaac cggcaagaaa ttcaattgcc ggaaagcccc caaggaacca 120
cttgcccaca aagcgcggcc ccaatgttgc ccgggacacc ggcagattaa aaaaccacc 180
gttttcgccc cggcaccgtc tcgtccggg agatacgcaa gtaccagaag agcacggagc 240
tgctgatccg caagctgccg ttccagcgcc tgggtgcgtga gatcgc 286

<210> 29998
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-F2

<400> 29998

attgcaaatt ctgaaacctg ctgagagaaa aaacaaattt atgggggtcca acaaaatgtg 60
atagtgaag ccattttgct tccagcagct ctgcctctt aaggttctcc tgtggatgca 120
tcgagacaac agcatgctgg cgccaagttt gagggcagca ttgggctact atcagagaaa 180
ccaaataatc ccatacctaa ctgttcatct ggaagttact catcatgaca agtgcctgaa 240
attttctctc tttcctgtta ccttgtgtca gaacattatg tagctgtaga tatattgatt 300

atggaaagat gaagttgcca aattggcctg aggagattcc tttctccagc caggaaaaat 360
tctgaacatc aaggagtttc tggttgcaag tttcactatt taaaagcagg tatgttgctt 420
gtg 423

<210> 29999
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-F3

<400> 29999

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gcccttttat gtgtttccct gtggacatgc cttccatgca aattgcttga ttggacatgt 120
gactcgttgc agtaaccagg tgcaagctga gagaatattg gaccttcaga aacggcttag 180
cttgatggac aggaaagcag caaaagacaa tggggcaagt gttaatggcg aacctattac 240
gagcacaacc ccagttgata agctgagatc acagttggat gatgctgtag cgagcgagt 300
ccccttctgc ggtgatttga tgatcaagga gatttcacag ccgttcattc ttccccaaaa 360
atcggatgaa aaggcatcat gggaaatcaa acctcaacca acgcctcaaa agattcttcc 420
gatgaccatg tctatttgat g 441

<210> 30000
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-F4

<400> 30000

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ttcaagatct tctgccgcgc caacgagaac tactgcttgg ccgtccgcga cggcgccgtc 180
gtgctggccc cggtaacccc caaggacgac caccatcact ggtacaagga catgcgcttc 240
agcaccgggt tcaaggacga ggaaggcatg ccggcgttcg cgctcgtcaa caaggccacg 300
gggctcgaa tcaagcactc tctcggtcag tcccaccg tcaagctcga gcctttcaac 360

ccggaccaag aag

373

<210> 30001
<211> 411
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-056-Q1-K1-F6

<400> 30001

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aaaggttggt ggggtgtgata ccagtggaga tggcgtaaag ctgacactgg agcctgcagc 120
tggtggtgag cagaccatcc ttgaagcaga tggtgttctt gtctctgctg gcagaagccc 180
atttacttct gggattgggc ttgaaactct tggtgttgag acagacaagg ctggcaggat 240
ccttggtgat aagcgcttca tgaccaatgt gaagggagtc tatgcaatcg gngatgccat 300
ccctggtccc atgcttgccc ataaagctga agaggatggt gtcgcatgcg tagaattcat 360
tgcttgaaaa gaaggccatg ttgactatgg cacaagttct ggtgtggtct a 411

<210> 30002
<211> 233
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-F7

<400> 30002

ctttttctcc ttccgtttgg aggagtcctt cttctccttc ctcttggtgc gggactcttg 60
cgatgaagtg ctcccggtggc ttgtagtggg ctattcacc cccccccccc ctctaggcga 120
ctatcaattg gtatcaaagc ccggtgcttc attagagcct aaccgctcga agtgatgtcg 180
ggagatcacg ccaagaagga gatggagacc ggcgaaaagg ttctagatcg cga 233

<210> 30003
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-E11

<400> 30003

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agattgagct ggccgaggtc gaaatgcccg gcctcatggc gtgccgcgcc gagttcggcc 180
cgtccaagcc cttegccggc gctaggatct cggggctctt ccacatgacc atccagaccg 240
ccgtcctcat cgagaccctc accgcgctcg gcgccgaggt ccgctgggtc tcttgcaaca 300
tcttctccac gcaggaccac gccgtcgctg tcatcgcgcg cgactcggcc gccgtgttcg 360
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<210> 30004

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-C7

<400> 30004

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gatttgtgaa atttggtgat cctacagagc aagctcgtgc aatgactgaa atgaatggaa 120
tgccttggtc ttccaggcct atgcgtattg gtcttcgagc aagtaggaaa aatacaggag 180
gtgttggtca agagagagta ccaaattctc aaggagctca gtctgagaat gatcctaaca 240
ataccactat atttggttgt gggcttgacc ccaatgtcac tgaagatacc ctaaaacaag 300
ttttttctcc ttacgggtgaa gtcgtccatg ttaagatccc tggtgggaag agatgt 356

<210> 30005

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-C8

<400> 30005

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gcggcaggtg gtggcgggct tctcaccct ctccatgttc gtcatgctcg gcaacatgat 180
caagcacgac cacttctctc ccgtcgccga ggagctgggc ttggaggcaa caggtgtggt 240

gtcgaacaca aggaagcttg acaacaatgc tgaaatgagc agcgctcgata cggctggagt 300
ggaagacctg atggacgctg tcgaggaagt taaaccttgc tggaccaaac caagttcaaa 360
aaaaatcagc cgtctaattg ttttgttaca ttctccttga ctatgggccc tgagtatcac 420
atctctcaga tcac 434

<210> 30006
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-C9

<400> 30006

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accctgagtt ccgtggcgga atgggtctcg ctttctttt gcaccatttc tctgaggttg 120
ctgattacag ctttacagct aacatggaga cagagctaga taatgtctct gctgggctaa 180
ctgaatggaa gggctcttcta aaaggctact gggaacgatt cagcaaatat tgtgcagatg 240
cgagtaatct ggatggcaga aaggtagaga gaatgctcga agaaaaattt ggtcctatcc 300
tcttccctaa tgttgacaca gacaatagaa ttgcccctag ttgttctgaa ggaaccttga 360
gattcaaagt tagtaggtat ggtgaaggct attttatagg ctgtgatcga catccaaaat 420
gcaag 425

<210> 30007
<211> 293
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-056-Q1-K1-D1

<400> 30007

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aactgaactg ataactacat gaccttcgaa ggtcgtttat tactgttgtc taagcggggc 120
tgacatctta gtatattaca cgagtaaagg aacaaaggag tgcgggaagt gggccagata 180
agcaaacaat tcttttgaat ccatgtatca tcacgcagac atcttagacg ctaggaccga 240

gncttgcctc aaatgaaagc cgatgaagaa aatggacagg aacagaccat aat 293

<210> 30008
<211> 437
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-056-Q1-K1-D11

<400> 30008

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aggaccgtct cctcgccctgc tcatccgcgc ctgcttccct tctctgggct cggagaaccg 120
gagagaagcg cgcgcggcca tggcgctccag cgccctctcg ttcattcaagt gcgtcacggc 180
cggcgacggc gccgtgggca agacatgtat gctcatctgc tacaccagca acaagttccc 240
cactgactac atacctacgg tgttcgacaa tttcagtgc aatgtagttg tggatggcac 300
cactgtgaaa tttgggcctt tgggataccg ctgggcagga agattacaac cgnctgaggc 360
ctctaagcta ccgaggtgca gatgttttcg tgcttgcatc ctcacttggt agccgagcta 420
gctatgaaga tatcatg 437

<210> 30009
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-D12

<400> 30009

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accctttcgg ccagatcccc gctctcgctc acggagacga agtctcttcc gagtcccgtg 120
cgatcaaccg gtacatcgcc agcaagtacg cgctcggagg cacggacctg ctccccgcga 180
cggcgtcggc ggcgaagctg gaggtgtggc tggaggtgga gtcgcaccac ttccaccgca 240
acgcgtcgcc gctggtgttc cagctgctcg tgaggccgct cctgggcggc gcccccgacg 300
cggcgggtgt ggagaagcac gcggagcagc tcgccaaggt gctcgacgtg tacgaggcgc 360
acctggcccc caacaagtac ctgcggggg acgagttcac gctcgccgac gcccaaccacg 420
cg 422

<210> 30010
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-D3

<400> 30010

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ggagactcgg agtcgggggc gccagcgtct cgctcgccg tcagcagcag cagcagctgc   60
acctccattc cacggcttcc gtcgtgcgct tcgtctgcac ccacaaaggc gacggcgacg  120
gcaggggggag gagatgaagc tgaagcagct ggagggcctc ttgggtggcc tgaccagtt  180
ctccgacccc aagctggagc tggagcagta tgcgacgggc cctcacatcg cgtcgcgat  240
gctctacatg acatgttctt ggtattgata ttgaccaca gtcacttgaa cttgctcaag  300
aaaatgctgc tgatctggag ctggacatcg atttagtttg gtctgacata aagaacttaa  360
atctgaaagg gaagagcaag tgggaagttt tgctccttagc tgaccaaaca agttcggcaa  420
catatacctc ttttg                                     435
  
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<210> 30011
 <211> 342
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-056-Q1-K1-D4

<400> 30011

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tacatgagtt caacagggca caatggctct caaaagtcca ttcatacttg tgacttgact  120
ggttatttag gtgataacga tttgggggtcc ggcacattca ccagtttggc cagcttttag  180
ccttgcttct agcccatggc atacttctgt gtccaggagc gtgcggtgga ctcatacttg  240
gccctgtcgg tcttgtacat gtgagcaatc tcagggacaa gaggatcatc anggtttggg  300
tccgtgagca gtgaacagat tgacagggag accttttgag at                               342
  
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<210> 30012
 <211> 348
 <212> DNA

<213> Zea mays
 <223> Clone ID: LIB3067-056-Q1-K1-D5
 <400> 30012

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 gaagacgaat aattcccggc tggggctcct ccagtccact ccacccatgc ttttgtgtca 120
 ggcggagcgg aggtagagca tagggagtga ataaccgcta ccttatttca tttctatgat 180
 gtatctatct aatttgggcc ttccctgata atgcacgacc cgtagtgtta aaaaaaaaaa 240
 gaacatgaaa ttgaaataga aattgaccca aagataattg aacattgcat aagaaaatgc 300
 taattaaact ggaacttgac ataaaaatta aaaaaggggg ggccccctt 348

<210> 30013
 <211> 380
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-D7

<400> 30013

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 aattttccac caaaagcaaa tctgcctcca tttcgctgtg caatctgcca agtggaccaa 180
 gagccattcg aaggtttaat gacggacaat gtaggtggct gctgctcaac cccatcaaca 240
 ccatgggggtg gtccttatct ttgctcacgc tgtaagaaaa agaaggacgc gatggaaggt 300
 aaacgatcga atcgttcaac gacgtgcaag tgaaagttct gataggaatc actgggactg 360
 ggtcctgtga tcctgtcatg 380

<210> 30014
 <211> 314
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-D8

<400> 30014

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ccttgatgaa ccaatatgtg aacaagaagt tcagcaatca gtacaaggct acgatcggcg 120
 eggatttcct caccaaggag gtgcagttcg aggacaggct cttcactctg caaatatggg 180
 aactgctgg ccaggaaagg ttccagagtc tcggcgttgc attctaccgg ggagcagatt 240
 gttgtgtcct agtctatgat gttaattcta tgaaatcatt tgacaacctg aataactggc 300
 aagaagagtt tcta 314

<210> 30015
 <211> 434
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-056-Q1-K1-D9

<400> 30015

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 gggagagacg cagaggagac agctgctgcc tggctgagac gatggccgga ggcggcgacc 180
 actcccagac gaacggaggc cacgtcgacc agagggcctt ggaggagggc aggaaggagg 240
 agttcgctga ccagggtgc gccgccatgg tcgtctccgt cccatttatc cagaagatca 300
 tcgcgagat cttcggcacc tacttctga tgttcgctgg gtgcggcgcg gtgacgatca 360
 acgcgagcaa gaacgggcag atcacgttcc cgggcgtggc gatcgtgtgg gggctagcng 420
 tgatggtgat ggtg 434

<210> 30016
 <211> 354
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-E1

<400> 30016

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 acaaattcct tcgcattcca tgcaaccact tcatgttccc cacatcaaaa tctgggtgaa 180
 attccgagat ccatcacata tcagtacata atatgatgat cccacagctg gagattagac 240

agagatcttt cgaagatgct agctgcaagc tccaactgct atgatatgga caatgccaaa 300
 gggacaaata aaatgcaaca cgaaggaaaa gatgaacagt actgggtaca cccc 354

<210> 30017
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-E10

<400> 30017

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 ttttcacaac ataaactcta cactgccgcc tccacctgtt ctgaatcgtc tgcctcctcc 180
 agctattcct tcagcagtta ccatcaatcc accagcaagt tcaagtcaag caattagctt 240
 tccaactggc cgaaccagcg gcttgaacta ttaccagacc ctgatccatc agcatggagg 300
 ggagaggcat gagccacagc cacttcaaca gcatggaatg cactttccaa tgcatcatcg 360
 cactgtcgtt tcccagtcta ggcgcactga tattgtcagc agtgggtacta tgccagctag 420
 ggat 424

<210> 30018
 <211> 299
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-C5

<400> 30018

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 gcttctcaga gcaaagattt aaagctgggt gctggcgagg cgaataggaa cattgagaaa 120
 gaaagacgtg ccgacttcta taaccaacca tgggttgaag acgccgttat aagatacttg 180
 aaccgcaaac cggctaacga gggcctaggt ggtgggtgctg gtgggttcttg aagcgtggat 240
 ttctcctagc tatttttagtg tataaacaaa ttatctgttc tgtattggca gtaaatttc 299

<210> 30019
 <211> 327

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-056-Q1-K1-B1

 <400> 30019

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 agttcttgag gctgttgcag ttaacaactt anggaagtgg aagacagcga cgagatgac 120
 agcattgact ctgcttctcg caagcagaga cccaagtcta cctgcgcaag gcgctctagt 180
 tgcccccggt gttgctctac ttacgtctc cacgggactc gccgtatggc ccctagtggc 240
 gtacatgaga aagatatggc gtatactgct aaaatagtat tagcacaata tatatatagt 300
 gtaatagaag aaacatgcaa tgcgagc 327

<210> 30020
 <211> 419
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-056-Q1-K1-B10

 <400> 30020

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 gatccagcca agccagggat cgccatgtcg gactcggagg agcaccactt cgaatcgaag 120
 gccgacgccg gagcgtccaa gacctaccg cagcaggctg gcaccgtccg taagaacggc 180
 ttcatcgtca tcaagaaccg cccctgcaag gttgtggagg tttctacctc aaagactggc 240
 aagcatggcc atgccaaatg ccaactttgtt gccatagaca tattcaacgg gaaaaagctc 300
 gaagatattg atccttcgtc acacaactgt gatattccgc atgtgaaccg tactgagtac 360
 cagctgattg atatatcaga ggatggattt gtgagccctc ttacttcaga tggcaacac 419

<210> 30021
 <211> 124
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-056-Q1-K1-B11

 <400> 30021

Sequence

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atctagttga tcggaacgac ctagagaaat gtgaagaaca cgaagcgctt ttctgtttga 120
attt 124

<210> 30022
<211> 373
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-056-Q1-K1-B2

<400> 30022

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tagcagtagc acaaccagac ggtcttcagg tttttggctc gcatgccggt cattatggtg 120
ggcttccaca ttgttcaagg accagttggt ttagggggcg ctttctagcg gagggtcgt 180
ttttcacaga tcacctctca ggggggttat ctgttttttg agcctcggct gccatcactg 240
gcatcctgcc cctagatcca gacactgggc cttgccctta cagtcataag ttctttttaa 300
gttgccatag tgtccagggt ctctttccgt ttactgttgc angcggttgg gatccattga 360
cagctcttga cta 373

<210> 30023
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-B3

<400> 30023

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gttgtgttgt ggttcattgg catatttgtc cccagcgctg accgtttcaa cgaagtgagc 120
gagtatggcc ttactgccgc cgagagatca agtctcaggc cactgcttgg tgaaaacgag 180
ccacggacat cggactaaaa tctgcgcaat ccataaccat ttgttacttg gaagggcaat 240
cttaggggat gtttggtttc ctctagatt atataaactg gattatagtg aaaataagct 300
aaaataagct agcattgggt aatttatttc agttgcatgc gaggttgcaat cttaggggtac 360
gagggtagaa tatcactttg gaaggctaaa atagggtatc ataattcaac ttatataatt 420

t

421

<210> 30024
<211> 228
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-B5

<400> 30024

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa agggaaaaag aaaaaaagga 120
ataaaagaat aaaaaacgag agaattgagaa taaaaaaggg gggctatagt gaaacgataa 180
atgcaatata ctggccgaag gtaaacaatg tattgactgg gaaaaccc 228

<210> 30025
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-B6

<400> 30025

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agattgtatg ttgttgatg aagaggagaa gttgcagtta attgagcagt ttacaaagtt 120
gaaatctcat gttagtttga ctgctgatct ttggctctct aacaaaaacc ttggatatct 180
tggtgtaaca gcacatttca ttagtgaaga ttttgagttg cacaaaaaga ttattgcatt 240
caagaagatt tccttccac atacatctta tgctgtgcaa gatggtatta cctcttgttt 300
gctagagtgg ggattggttg gtgatttggt taccctgact ttggataatg ctagtgttaa 360
caatttagca a 371

<210> 30026
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-B7

<400> 30026

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa cagggaacc aaaacaaagg 180
 aaccaacatc tgtaacacct ccttgaaaat caaacccctt ttgatacgcc caaaaaaat 240
 aaaacacaag cccggagttt caacccaaat aaattgaaaa ctctttatgg aaaaaaacc 300
 aaaaacagga gaaaaaatgc acattatacc caat 334

<210> 30027
 <211> 367
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-056-Q1-K1-B8
 <400> 30027

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 cggagcaggc gggaaggcga agaaggcgcg ggcgggcgcg aaggccggcg ggccgacgaa 120
 gaagtcggtg tcgcggtccg ccaggggccg gctgcagttc cccgtcagcc gcgtcgggtg 180
 gtacctcaaa aaggggccgt acgcgcagcg tgtaggcacg ggtgcccccg tctacctcgc 240
 cgccgtcctg gagtacctcg cgcccgaggt gctcgagctc gccggcaacg cggcaaggga 300
 caataagaag acgcgcatca tcccgcgcca cgtgctcctc gccatccgca acgacgagga 360
 gctcgggt 367

<210> 30028
 <211> 424
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-056-Q1-K1-B9
 <400> 30028

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 ggcaacaatg tgtatgggcc aaatcaattt cctgagaaac tcattcccaa attcattctt 120
 ttggccatgc aaggctctgc tcttccaatt catggagatg gctccaacgt caggagctac 180
 ctgtactgtg aggatgtggc cgaagctttt gaggtggtcc ttcacaaagg agaagttgga 240

catgtgtata atattggtac tgtgaaggag aggaggggtga ttgatgtggc caaggacata 300
 tgcaagctct ttggcttgga tactgagaaa gtcacaaagt ttgttgagaa caggcccttc 360
 aatgaccaga ggtacttctt agatgatcag aatctaaaga gattgggatg ggcagagcgc 420
 acac 424

<210> 30029
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-C1

<400> 30029

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 atctgccgcg agggcctcat caaaatctgg gttcgaccag agcagagcga aaacaatcag 180
 caatcgaatt cttcagaatt tgcttttaggc cctgcttcga aggatagggc gatcacatct 240
 tccaataaag caagtagctc cagctttaag aagctgccgc ctgttcttgt cacatgatga 300
 atcaacggga tggttcttgg ggatatttct gcttcacgtg gcattagtgg tggatatgaa 360
 tcttactcca tggttgatgg ggatgaaact ctcatatgga gtctgcagac tgcaagtaat 420
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<210> 30030
 <211> 258
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-C10

<400> 30030

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 aaaaatattg gcggtgatgc agatatttat tgatttggtc tggtaattaa taagaaccct 180
 caagcttttg ggtgttcacg gaaagggtga gttgatgcgg tgaaaacagc acgtgaaagg 240
 gtaatgagag atcgatcg 258

<210> 30031
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-C11

<400> 30031

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agtttccaac tcagcgcttg tcagtgcctt tatgaaggag ctggaacctg agtcacctgt 120
taccagtggt gacctggacc gacttaaatt gtcaaccgcc ccttttatgg aaaggaactt 180
ggaatttctg attgggtgca tggatgatct ttcacagag cagaacaagt tccaatatta 240
taaccgcaat ctctcaagac aacagtcaca gcagcaggca tggcttcaaa agagaaggca 300
ggagaacatg gcgaggaaag cagctggtga ggagccacta ccagaagaag atccatccaa 360
tcctatattt aagcctattc ctgagccctc acgattggag ggctatctag taactaatca 420
gatctgcagt tact 434

<210> 30032
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-C2

<400> 30032

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atgttagggc cttggtggtt atcaatccag gaaatccgac tgggcagggtt cttgctgaag 120
acaaccaata tgatatagtg aaattctgta aaaatgaggg ccttgttctt ctagctgatg 180
aggtatatca agagaacatc tatgttgaca acaagaaatt taactctttc aagaagattg 240
caagatccat gggatacggc gaggatgatc tccctctagt atcatttcag tctgtctcca 300
aaggatacta tggagagtgt ggtaaaagag gaagttacat ggagattact ggcttcagtg 360
ctccggtaag agagcagatc 380

<210> 30033
<211> 440

<223> Clone ID: LIB3067-056-Q1-K1-A9

<400> 30035

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acgacgaagc tggcggccat ctacagcagc ctcaggggca aggcggagga cttcgagatc 120
gtgtacgtcc ccatggacag ggaggaggac gggtagctgc gctcctgcgg cgacatgccg 180
tggtctggcg tcccctacga cggcgcgcgc tcgcgcgcgc tggcgaggta cttcgacgtg 240
cgggagatcc cgacgttgtt ggtggtgggg cccgacggca ggacggtgac gcgggacggc 300
cggaacctgg tgaacctcta cttcgacatg gccttcccg tcaaggacgc gcagatcagg 360
ctgctgcang aggcggagga cgaggcggcc aaggagtacc cgcggtcgct gcgccaccgg 420
ggccaccgtc acgagc 436

<210> 30036

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-G12

<400> 30036

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aagagttcgc gggttgcgtc atcagtgttt accagatgga agccttgagg acgtgggagc 120
agcacgcgcg gcgtgcgtac gagctgttcg acaaggaagg aaaccgaccc atcgtgatcg 180
aagagcttgc atcggaactg gggcttggcc cgtcgggtgcc tcttcacgtt gtctccagg 240
actggatccg gcacgccgac gggaagctga gcttctctggg gttcataaag ctcttgcacg 300
gtgtgtcgtc gcgctcgatc cccaaagcct agccatgcgc catccattac 350

<210> 30037

<211> 214

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-G4

<400> 30037

caaacgaatc ggcacgacgc atcggcatcg cctccgacga tcttgagaca aaaaaagcc 60

accgctgcgg caactccgcc tcccgcgcgac ccgggggatcg cctgacaaca ggcagcgaaa 120
 agggggcgag ggtttgcccg ccaagatgga ggacgtggac gtctcgccgc agctgaagca 180
 gatgacggac ttcacccgcc aggaggccgt cgag 214

<210> 30038
 <211> 308
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-055-Q1-K1-G5

<400> 30038

cgcaaactc cgccacacg ttcggtttct cgtccgcgag gaccatcata taactgtcgc 60
 cttctctcgc ttttaaaca aatctgtctc tgcacggggc gtcaacggca ggcggaacca 120
 cacgatcggc ggcggcgggc gggagcacct ggacttggcg gtggagtctg tcatacgctg 180
 ggcaggcacg caccatcttg tgcaagcgac ctcaacttgag tcctacctcg tatgctagca 240
 ctagcaacgt ggattcgagc gccggagccg tcaacgatcg atgggtcgaa ttgttgaaaa 300
 aaaaagaa 308

<210> 30039
 <211> 322
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-G9

<400> 30039

ggaaccgaaa attgcagatt tcgggttggc aaggcttcta ggagaaggcc acacgcggac 60
 tcagacaggc agagttgttg ggacattcgg ttatatggcg ccagagtatg catcacatgg 120
 tagtgtgtcg cctaagattg acatcttttag cttcggcgtc ttgatccttg agatcgtgac 180
 caggagaagc aactgcagct ctgatgacca cagcactgtg aatctcctaa gtgatgtctg 240
 ggatcactgg aagaaagggg cgatgccaca aatgcttcac cggtcactgg atgagtttgc 300
 tcgaagccaa gcgctgcgat gc 322

<210> 30040
 <211> 214

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-055-Q1-K1-H10

 <400> 30040

 cggacgcgtg ggcggacacc tgggcgttgg ccgaagaaga ggagaagcga agcaagcggg 60
 cttctagaac aagactgcan ggggaggggg aagaccaagc gaaaggggaa ctagagcaag 120
 atgggcggtg cactgctgct tgcgctccta ctcgtatctg ctgctgacgc ccctcaggta 180
 cttggagttg gcaatggaga caatcacatg agaa 214

<210> 30041
 <211> 228
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-055-Q1-K1-H11

 <400> 30041

 tgcgaggaca gacaagtaca cctcgtatgt tttcatcggt tacaatgcta accgcatcac 60
 acagtgcctt gctacccttg ctaagggcat tcatgacaac ttcggcattg gtgacggtct 120
 gataacaact gttcatgcca ttactggcac tcatactact gtttactgac cctcatccta 180
 agactgtaga agtgagcagg ctcccatctc taacatcatt catagcag 228

<210> 30042
 <211> 331
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-055-Q1-K1-H12

 <400> 30042

 gacccacgcy taacgngcga cgcgtccgnc cagcgtccg cctatgcttt cgtatcaacg 60
 tgcccattgn gcctgtctct atatcaccat gcgtgtgagg ctctactcct aagtcggttg 120
 gtgtctggag ggatgggacc aaacagaaaag gagcaagaac tttggggcgc aaggactgcy 180
 ctacgatctt gagatatggt ccatatggat gtcatgataa cgatgcatgt acagaaaacc 240
 tgtccgtgcc tattcagtaa tgntcgtgat gagtatcttc catcaaacac atgtaaaaat 300

tctaaaggta atcttgatta gtagcaaggg a

331

<210> 30043
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-H4

<400> 30043

cccacgcgtc cgcattgttg gacgcgttcc cctcctgcac gcaacctcat ctcgtccgcc 60
agatccagga tggccgtcct ccttgagacc ttgcctcccc gagtgccttc ggtgagctac 120
tttgtttcga tttatcagga aatccgtttg cttcatgttg tgcaggctca tatctgattg 180
ctggattcgg caaaccgcgg ttggatcctg tatcgatctg gagaaatcgc gaagtcgtcg 240
tcgttcggtt cggagcggat ctgaggcgac gatagatgga ggcggcggga tctctcggtc 300
tgcagtcctg ctccacctcg atggatgatg tctctgcgct gataattatt ggatcaattt 360
cgataattat tagtagatct atga 384

<210> 30044
<211> 78
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-H5

<400> 30044

agaacaaaaa aaaaaaaaaa aaaaaatttt aaaaaaaaaa aaaaaaaaaa aaaaaaaggg 60
aggtttttaa gaaggggg 78

<210> 30045
<211> 280
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-055-Q1-K1-H6

<400> 30045

cccacgcgtc cgcccacgcg tccgcccacg cgtncgtatc aacgtgccca ttgtgccgcg 60

ctctaatacac catgcgtgtg aggcctctact cctaagtcgg ttggtgtctg gagggatggg 120
 accaaacaga aaggagcaag aactttgggg cgcaaggact gcgctacgat cttgagatat 180
 ggtccatatg gatgtcatga taacgatgca tgtacagaaa ccttgccgt gcctattcag 240
 taatgtcgtt gatgagtatc ttccatcaat cacatgtaaa 280

<210> 30046
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-H9

<400> 30046

cccacgcgtc cgcagggaca acaagaagac tcgcattatt ccgcgccacg tgcttctggc 60
 gatccggaac gacgaggagc ttgggaagct gctgggcggc gtgaccatcg ctcacggcgg 120
 tgtgtcccc aatatcaacc ctgttctgct gcccaagaag acggcggaga aggcgtccag 180
 tgtggggagc aaggaggcaa agtcgcccga gaaggccgcc aagtccccca agaaggcata 240
 gactgactgt ctggagtgat ctgatgttta gcaggacctt gataccagta tgcggtgatg 300
 cgtaggctgt agatgggtcg aatgtgcttg tgtgtgtatg tgccctgctg caagttgccc 360
 tttgctatct aaaatggaag aagaaatgcc ttgtttctc 399

<210> 30047
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-A11

<400> 30047

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 gtggccggtc ttcttccgcc gggagtggaa gcgcaactgg cccttccctca cggggttcgc 120
 catcaccggc ttcatcatca ccaagatgac ggccaacttc accgaggagg acctcaagaa 180
 ctccaagtgc gtccaggaac acaagaagcg ctgaccaacc gggagtcgtc cgaatcgctt 240
 gcggatgaaa aattagcccc ctatttatct tgtctttttt tttatctaga tgcgtgcact 300
 ctattgtaat aatgtaataa gaggcaattg gattgatcca acagcaaccg gcttctgatt 360

ttgatccgct tcgctgacat aatatgtgcc ttttttctg

399

<210> 30048
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-A12

<400> 30048

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aggcctacag gatgaagacg ttcgaccggg gaccggtctt cttectccgg gagtggaaac 120
gcaactcgca ctttctcacc gctgttcacc atcaccggct tcacatcac caatatgacg 180
accaacttca ccgaggagga cctcaagaac tccaagttcg ttcaggaaca caagaagcgc 240
tctccaaccg ggaatcgctc aaatcgcttg ctgatgaaaa attagcccgc tatttatctt 300
gtctttattc ttatctagat gcgtgcactc tattgtaata atgcaataat aagcaattgg 360
attgatccaa caatatccgg ctttttgatt tgatccgatt cccttacata atatgttctt 420
cttttctt 428

<210> 30049
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-A2

<400> 30049

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agggttttgt ggagggggcga tggcggcggc tgatgtggag taccgttgct tcgtcggcgg 120
gcttgcttgg gccaccagca acgagtcgct ggagaatgcc ttcgcctcct acggcgagat 180
cctcgactcc aaggatcatc ccgaccggga gacggggagg tctcgcggct tcggcttcgt 240
taccttctcc tccgagaact ccatgctcga cgctatcgag aacatgaacg gcaaggagct 300
cgacggccgt aacatcaccg ttaaccaggc ccagtcccggt ggcggtggcg gtggccgcgg 360
tggctacggc ggctgtcgcg gc 382

<210> 30050

<211> 185
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-056-Q1-K1-A3

 <400> 30050

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 catgtagtgg taggcccttg gccactaag cagaagaact ctaggccttt tttttgtcc 120
 cctcgtgact gtcttgctg gaaattttag atagggtggaa gtggcggaac cctccgattt 180
 gtctt 185

<210> 30051
 <211> 303
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-055-Q1-K1-G11

 <400> 30051

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 gcacgactct gtgctctctc gagtgaata tctgttctct gcagaatcgg tggcgtctga 120
 taggcgatga aggcacctt gcgtagcagt acccttcgat gcatctattt tggtatggta 180
 ttgaaaagaa gatggcacgt accattgggt gcgagcgagc cagcatgaat aataatgagc 240
 ttgcaaacia tgattggttg aactaaacca acacaatttt tttttaataa atgggttcgaa 300
 tga 303

<210> 30052
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-056-Q1-K1-A6

 <400> 30052

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 tccggcttgc aataattgag tacatcccat tggtggcgag tcaattaggt gttgggtttt 120
 tcgatgacaa gctgggggag ctctgcatgc aatgggttga agacaagggtc ttttcaatca 180

gagatgctgc cgctaacaac ttgaagcgcc ttgcagaaga gtttgggtcca gagtgggcaa 240
 tgcagcatat aatccctcaa gtgctggaga agatcaacaa cccacactat ttataccgca 300
 tgacgattct gcaagcaatc tccttgctag ctctgtcat ggggtgcagag atcacctgtc 360
 aaaagctgct tccagtcgtc attaattctt cgaaggacag gggttccaac atcaagttca 420
 at 422

<210> 30053
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-A8

<400> 30053

agagaaacca aggccaagga gcacagcacc ccgtacgtcc ccagcaggag agggagagac 60
 agaaggggtg gcgaaggaaa gaagaggcgg tgggagagga gggcgacatg gagaggccgg 120
 caccggtgag gaagtctcac atgtcgacgg cggacctgct gatctggccg gagggggcgc 180
 cgcaggagtc gcccgcggg gccacgccgc catccaaccg ccggccgcat cagccgtcgg 240
 aggcgctcag gaaggtggtg ttcggcgggc aggtgacgga agaggaagcc gagagcctca 300
 acaagaggaa accatgctct gctcccaagt ggaaagagat gacaggaagc ggcatatttg 360
 ctgctggggg cgaggctgaa gaagatgaat c 391

<210> 30054
 <211> 371
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-D5

<400> 30054

aattagaaat tagtgatgac ctaccattga agaaatggac ataccatgat cataaggggtg 60
 atttgctcag ttctgtcaca tctgcaaata gtgctatagc caaagaaatt aatgaagtgc 120
 tatttaaadc attgcctgct gatacacctc gccttgattt gtttgcacat agtcaccttc 180
 tgagccaaag gaagagtgat ttgattgtca aagaaaggct tggagtatgt aaaaccaggc 240
 tgaggttgaa agagcagatg cttacaatga agttcaaggc atattgtcac ttgtggaaag 300

acgtccaact attttctgca aataaacagc gttcaaagtc taataagcgc actgatcaga 360
gcaaccgaac a 371

<210> 30055
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-D6

<400> 30055

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ccacaaacac acagacacca tggccttccc agggactccg gcgaggaaga tcgtaccagg 120
cggcttcacc gcagcacgaa ccgccgtggc cagcggcggc gctcttagct tcgacctgga 180
cggcgccggc gactttttct ggggcctgtg gcagctcatc aaggcgaagg ccgccgaggc 240
agcggcctac ctgcgtgccc tcttcgcggc gctggcggag aaggcggacg agatcttccc 300
gccggagacc cgctcggaga cgctccggca gtggatgcgc gtc 343

<210> 30056
<211> 186
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-055-Q1-K1-D9

<400> 30056

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aaacttanag ctgctcagga agctcgtgct ccccgacggg tccttgctac gcacgcagct 120
tagcgggccc cacacacgcg actgactctt atgcgaccca caacgcgacg gctagagttt 180
gctaag 186

<210> 30057
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-E1

<400> 30057

cccacgcgtc cggagcttaa tggcgatatt tttggagcac gtgcagaata tcagcgggtg 60
tattcagatt tatgccctgg ctttctagag gccattgtga agcattctaa tatggaacac 120
cgactgggag ataaagaatt gtcctgttca gtttatgaaa aggacatcgc tgctgagaag 180
ggaatggaac agagccagct cttaccaaca ttgcttattc agtactaccg cttcttattt 240
tcggtcatca tagacttggg aaaggcaagg gagatattaa ctgtgctgca tgagcagttt 300
aatttaacaa aaccagtgtc tgaggctgtc atccatctag agtcgatttt ttcattcgaa 360
aagcgtattg aaattt 376

<210> 30058
<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-055-Q1-K1-E10

<400> 30058

ccccgcttca cggaaaacct ncttgggttaa acatcatcta atatgatatg aattctggta 60
gacagataca tatatatcga tgcattattg natcattttt tctagtttca aggaatcata 120
attattttct atttagaaat ctttggattg catttgccca atttaagctc aaattctgtt 180
ttgtgcactt attaagttgt ttctgaatct tgcagaagca tatctacaga gaggagtcac 240
caagcccatt ggacttccga tacgcagctt tttctaatag aatggaaaac gaattgtact 300
ggaattgttt gtgtactttg gtcattcgt cgcaccgtat ctttgtaatc agtgagaatg 360
gcaagcaaat gtccatgaca tctattgtta ttgtaaaaac atgtgttata accctgattc 420
tcagattaca tttat 435

<210> 30059
<211> 361
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-055-Q1-K1-E11

<400> 30059

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ggttcgacac ctcgtcgtac cagcagcgcg ccgagggcct tggaggcctg ctggagttca 120
 gcgcgcagct gctgcagcag gagcggtacg aggagctggg catcctgctg aagccgttcg 180
 gccccgagaa ggcgtcgccc agggagactg ccatctggct caccaagagc ttcaaggaga 240
 cggcgtcata gcggagggag ggagggagac gtagctgccca gttttctaac gtgcaatgta 300
 gttcaggtag tctaagctat gttaggacct cccaagtgtg tgtgctggaa ggaaggcaac 360
 a 361

<210> 30060
 <211> 319
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-E12

<400> 30060

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 acggcggtgg acccgaagaa gggcatcctg tgcaccatcg cccgcacgc catcggttc 120
 atcgtggggg ccaacatcct ggtgggcggc gccttcgacg tgccgtccat gaaccccgcc 180
 gtgtccttcg gccccgcct cgtcagctgg gagtggggct accagtgggt gtactgggtc 240
 ggccccctca tcggcgggcg cctcgccggc gtcacttacg agctgctctt catctgccac 300
 acccacgagc agtccct 319

<210> 30061
 <211> 269
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-E2

<400> 30061

gtggtggcgc gcacgggatg cagctcctgg cattcccgtt gcgagacggg aagcgtggcg 60
 ccggcgacgg tgggtcagct ggtggtgcac gcggaggggc aagacctggc gtcgtacagc 120
 gtgagcctgg tggacgggtt caacgtgccc gctgtggtga gcccgcacgc ggtgggcggc 180
 gggcagtgcc cggccctggg gtgcgcggcg gacctcaacg ccgggtgccc gccctcgag 240
 cgctgctgg gggccggggg cggcgtggt 269

<210> 30062
<211> 280
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-055-Q1-K1-E3

<400> 30062

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tggacaaggc ctccattctc ggcgacccga tcgaatacct gaaagagctt gctgggaaga 120
tcgacgacct ccaaaacgag ctggagtcac caccatcccc agcttccacg gcctcgctgc 180
cttcgacgcc cacgagcttn cgnccctctga cttccacgct tgccgcccta ccatctcgcg 240
tgaaggaaga gctgtgcccg agcgcgttgc ctagccctac 280

<210> 30063
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-E4

<400> 30063

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ctgcgcagat tcatcattcc aggcagccag gccctctctt tgctgagccg agatctacgg 120
gaagcccact tgcaggtgct cctcggagga ggcggacaga gatccagcga caacagcagc 180
agcagcgcca cgaacatttc ggctgacct cttctgtcgt cgttcggcct tggttccct 240
acctcagacg cggagcaagc atccaagtcg actgtttcca ttctgatga tgctacgacg 300
gtgaaagaag cgcccgtca ggcacggaag ctaagtatcg attcgctcgt cacaagtga 360
gaaagggagc tgaagcggaa gcaagcccgc g 391

<210> 30064
<211> 231
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-E5

<400> 30064

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gaacttcccg cgtacctgct ggcgcaaatt cttggcgcca cgctcgctc cgggacgctg 120

cgctcatgt tcggcggccg gcacgagcac tttcccgga cgcttccac gggctccgaa 180

gtgcagtcgc tcgtcatcga gatcatcacc acattctacc tcatgttcgt c 231

<210> 30065

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-E6

<400> 30065

cagcaagtca aacagctcca aagggtgac aaacatccaa gcaaagccg tggaggagac 60

cagcacaagg cgtgctgcat tggacgcac tattaacgaa gtgctgttcc agatcataaa 120

gttcgccaac gagaaaaagg accacattcc tgctatccct gacaggattt tcaatcacga 180

gatcatgac ccaagctcgg attctgtatt tggatggaac acggacgtca ttcgcagagt 240

tctgaatagc gggcacccat actcgtata actgaagacg acatctcagt gggcgcccg 300

attcagatta ttagcgtgct gccgccctct ttggaagacg gctctgctaa ccatcgtggc 360

gaaccatata atat 374

<210> 30066

<211> 115

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-E8

<400> 30066

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ggggatgcgt aacatcgga tgctgcgggc gcttgctctg gcgctcgggg ggggc 115

<210> 30067

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-F1

<400> 30067

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ggaaagcggg caaggcaccg ttgctttgtt gttactgcaa gggcacgggc ttttctttac 120
caccaggtaa ggttgatggg cggctcttcta aaatctgttg ggactggaga tctaacaact 180
gcagatgttg agagaattct ggatgcaaag acggatactg ctgcaccag tatggcacct 240
tcttggtggtc tgtaccttgc taacgttaaa tatgatctga atacctgaag acaagtttta 300
tctagtggct tctgttggtg ggccctccaga ttatgtcagc tgttggctat caaaggaat 359

<210> 30068

<211> 285

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-055-Q1-K1-F11

<400> 30068

ggggacccta actactgaaa atgaagtccg tactactaca ctcataagct atgggttggtc 60
ggttttatag accctgtgga caccacacan nacctgagcc gattccttgg cgaacattca 120
gtgccgaccg gataacactc aagagacgcc aaatgtgtgt atgcaataaa tggttgtgac 180
gcataacaca aacgtgttta ataaaaagct gtctgcactc acccaatgtg tgtgcacaaa 240
tcaaaatttc gccctggttg ctgtcgtgga aatatgttga agagt 285

<210> 30069

<211> 364

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-055-Q1-K1-F2

<400> 30069

ggaaggccca gcgcgccacc ggccccgcca ccgtgctggc gatctgcacc ggaccccccc 60
gcaaatgcgt gtgcaggccg actaaccgga ctactacttt cngatcacca agagcgagca 120
cctcaccgac ctcaaggaga aattcaagat gatgtgcgac atgtcgatga tccggaagcg 180

ttacatgcac ctgacngagg agttcctggc ggagaacccg agcatgtgcg cgtacatggc 240
gccgacactg gacgcgcggc aagacgtggt ggtggtggag gtgcctaagc tggggaaggc 300
ggcggcgag aaggcgatca aggagtgggg gcagcccaag tcgcggatca cgcacctggt 360
gttc 364

<210> 30070
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-F4

<400> 30070

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ggggtcatcg accctgctga caccaggcgg gttctgagcc tctgcctctc cgcttcggcc 120
aagccggttc cggaagacac aagatacggg gtattccgga tgtgaataaa tgtgtgtgag 180
taataacgca gacgtgttta ataaaaagct gcctgcacgc acccaatgtg tgtgcacaaa 240
taaaaatttc gccctgggtt ctgctgctga aatatgttga agagtgttgt tcatttcata 300
tattactatc tgatg 315

<210> 30071
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-D3

<400> 30071

ggggtctctc cacatgacca tccagaccgg caagatcccc gatccggagt ccaccgagaa 60
cgctgagttc aagatcgtgc tcaccatcat ccgcgacggg ctcaaggctg accccaagaa 120
gtaccgcaag atgaaggaga ggcttgtcgg cgtctctgag gagaccacca cgggtgtcaa 180
gaggctctac cagatgcagg agaccggcgc cctcctcttc cctgccatta acgtcaacga 240
ttccgtcacc aagagcaagt ttgacaacct gtatggttgc cgacactcgc tccctgatgg 300
tctgatgagg gccactgacg ttatgatcgc cggaaggtt gccgtggtct 350

<210> 30072

<211> 188
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-F5

<400> 30072

accatcgccc ccatctccat cgggttcacg gtgggggtcc gcaagacaca ggacaccgcg 60
tattaccgat cttacataat gcccgacatg aacaatatga cccgccctca tcaactggga 120
gtggggctac caatgggtat actgggtcgg cccctaatac tgcagcggcc ttgccggact 180
catctacg 188

<210> 30073
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-F6

<400> 30073

ggacccgccc acctcctgca gcgcattgtc tgttggtgag gacatgttcc attggctgtc 60
gaccatcatg gggccatcgg acagcccatt tgcaggtggg gtattcttgg tgaacattca 120
cttcccaccg gattaccctt tcaagccacc aaaggtgtct ttccgcacca aggttttcca 180
cccgaacatc aacagcaacg gcagcatttg ccttgacatt cttaaggaac agtggagccc 240
tgctttaact atctcaaagg ttctcctgtc aatctgtcga ctgctcacgg acccaaacc 300
tgatgatcct cttgtccctg agattgtcga catgtacaag accgacaggg ccaagtatga 360
gtccaccgca cgctcttgga cacagaagta tgccatgggc 400

<210> 30074
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-G10

<400> 30074

cccacgcgtc cgcccacgag tccgcccacg cgtccgcgag ccagctgagc cacagggggg 60
cgctgcctcc tcgactccga ggacggcgag gggatccacg ccacggggcg tcaacggcag 120

gcggaaccac acgatcggcg gggcgggcg ggagcacctg gacgtggcg tggagtctgt 180
catccgctgg gcgtcgtgca ccaacttctc caccgcgccc tcacttcggg cctccctcgt 240
atgctagcac tagcaacgtc gttccgcgcg ccggcgccgc caacgccggg ctga 294

<210> 30075
<211> 395
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-055-Q1-K1-B7

<400> 30075

cccacgactc caccgcgacc gggagagggg cagagggaga cggccgcctc cagatcggcc 60
ggcggggatg acggcgctcg tctttccagc gctgctgctg gccgtagcgg cgggtgcttct 120
cctaccggcg gcagaggccg tgtggctcga gctcccgccg tcggggacca agtgcgctctc 180
cgaggagatc cagcccaacg tcgtagtgct cgccgactac gctatcatgt acgagtccca 240
ccccagctcg catcccaccg tcgccgtcaa ggttacatca ccctatggca atactgtgca 300
tcataatgaa aatgctacaa cgggccagtt ngcattcacc acttcagaag ctggaaacta 360
ccttgcatgt ttctggatag acagcgtgga gaaag 395

<210> 30076
<211> 394
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-055-Q1-K1-B8

<400> 30076

cccacgcgtn cgctggaaga ccggcaaggg gctcggcaag aacgagcaag gtatactgga 60
gccataaaga gctgacatga gagatgcaaa attaggtggt gggaagcaag aggaagatga 120
cttcttcaca tctgaagaga atgtgcaacg aaagaaattg aatattgaac ttgaggagac 180
tgaggaacat ataaagaaac gggaggtatg caatctaaca cctggtgcta gtttctctac 240
attcatgcag ttttttccct gggctgatgc ttgacatgct ggaacctaga tataatagtt 300
gtaagacctc tataggctag aagtagctgt actttcgtga tgtgaggata gctagcatca 360

accattaaag agtcttcagc attttgtgcg cttt

394

<210> 30077
<211> 340
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-055-Q1-K1-B9

<400> 30077

tcggtcaagc cacccaagtc agggcagctt tatectttgc attctgcttc aacttgcatt 60
ccgaattagt tcaaaagatt gaaagggaaa aaagaatttc ttcttattaa gcaacgaatt 120
gtgaaaatcc aagctcatgt gcgaagtcaa caagtgaaga agcattatcg gaaaatagtt 180
tggtctgttg gcatcgtgga gaaagttata ttgcgttgga ggcgtagagg ggctggctta 240
cgtgggtttc ggtctacaga aagttcagtg gagagcagca atggcggaac gagtagcagt 300
tcaatccaag ataaagcctc tgnngatgat tatgattttc 340

<210> 30078
<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-C1

<400> 30078

gtctccacca ggtgctccgg tgggctactg gatcagtgga gatcttcttc tcccgagcaa 60
cgcgctgctg gcgagccgca gaatgaagtt cttgcagagg atcgcgtaacc tgaacgtggg 120
tatctacccg ttcacgtcca tcttctgat cgtctactgc ttcttgccgg cgctgtcgct 180
gttctcgggg cagttcatcg tgaagacgct gaacgtgacg ttcttgacgt acctgctggt 240
gatcacgctg acgctgtgcc tgctggcggt gctggagatc aagtggtcgg ggatc 295

<210> 30079
<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-C10

<400> 30079

aatccccgct cgacccacgc cttcgaccac acatacgctt atcctgataa actaaacgca 60
cataacacat accaaaaaaa cttgcaaatt ttaaaccaat ctatcccctc cacacttcca 120
accccatctt tccccctcat ctctctactc caacgttctt tacctacaat tcaaagccct 180
gtcttactat agatcaaccc tgaaaaaaat ctacctttcc caaacataat tctcctccta 240
gacaaacacc ttcattccacc tctattaaaa gcgataaaaa ccactcctat tt 292

<210> 30080
<211> 288
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-055-Q1-K1-C12

<400> 30080
tgccttaagc caagctggcg cangcccaag ggtattgact cccgcgtcag gcgtaagtcc 60
aagggatgca ccttgatgcc caacatcgga tatgggtccg acaagaagac caggcactac 120
cttcccaaca agttcaaaaa gtttgttggt cacaatgtct ccgagctgga gctgctgctg 180
atgcacaaca ggacttactg cgctgagatt gccacaacg tgtccaccgg caagcgcaag 240
gagattgtcg agcgtgctgc gcaacttgac atcgtgggtca ccaacaag 288

<210> 30081
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-C2

<400> 30081
gcgacccgct cgcagcgccc gatcatttta acggaaactg ccaaaatcta gtgccaggcg 60
attgattgac tatggtagtg caccatacca tcaccaggat tgcatactca ctgtgtgtac 120
cacacactat tgcgccattg aagacattta gggacatcga tcgatata catgtgatat 180
ctggagtgtc gcttgcatat ttgttgagct ttgctcgtgt gataactgc atcatactca 240
cgataccttg gaacagcttg cactgatgga tataggctta ggtcctcttc cactgtacat 300
gctggaaaga gccgaccaac atgcggcgaa gtacgtaaga ataggaggat tgaactggcc 360

gccagcaata acaacagtag agagc

385

<210> 30082
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-C3

<400> 30082

gcatgttgtc tctcgctctc gctctcatca aaatgaaggg tacgacatac cgcggggggg 60
gaaaatcctg ccggttctag cggcgggtgca cctggactcg tcgctgtacg aggatcccag 120
ccggttcaac ccttggagat ggaagagcaa caacgcgcca agcagcttca tgccgtacgg 180
cggcggggccg cggctgtgcg ccgggtcgga gctggccaag ctggagatgg ccattcttct 240
gcaccacctg gtgctcaact tccggtggga gctggcggag ccggaccagg ctttcttcta 300
ccctttctgc gacttcccca agggcctccc gatcagggtc cagcgggtcg c 351

<210> 30083
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-C4

<400> 30083

cggcgcgtgg gcttagctgg tgaagataaa agctggcctt gctgatcata tgcacaggca 60
aagactgatg ggatccttgg acttaacagt gcggcgataa gctttcccag tcagcttgct 120
agtcacggga ttattgcca cgtttttggc cattgtatca ctaaagagca aggtggtgga 180
ggatatatgt ttctgggaga tgattatgta cctagatggg gagtaacatg gacttctatt 240
cgaagtggtc cagataactt atatcacaca caagcccacc atgtaaaata tggggatcag 300
caactccgga ggctgaaca ggcaggaagc actgttcaag taatttttga 350

<210> 30084
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-C5

<400> 30084

gggaatcatc caacaacgcc ttatTTTTTA agctgccctt ttccatctct acaattcgtc 60

tataactgct gctggttggc tcctaattga acctaatatc gcctgcaatt gcttccgtcc 120

aaggaaatcg aagcaggaga ttataaattt cctcacgcct ctcgactata cctgccactc 180

ttagctttag ttcggtaatg gtacatgtag gactgcgtcg gtacacttcg actggtcgat 240

taattttatt taataaatgt ggcgcatgga tcggacagtg tgtaactcag aatatggagc 300

atgcaattgc cgtgtatggc ttctagac 328

<210> 30085

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-C6

<400> 30085

attatggcta gtatctgtta tctgcgatgt ctggtttgcc ttgtcttggc ttctaggtca 60

gttcccaaaa tggatatcaa tcaaccgtga gacatatctt gacaggcttg cattgaggta 120

tgatagagag ggagagccat cacagctggc tccattgat gtcttcgtca gtacagtgga 180

tccattgaag gaacctccac tgatcacagc caaactgtt ttgtccattc tttctgtgga 240

ttaccctgtt gacaaagtgt catgctatgt ttctgatgat ggttcagcta tgctgacttt 300

tgagtctctc tcagaaaccg cagaatttgc tagaaagtgg gttccctttt gtaagaagca 360

caa 363

<210> 30086

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-C7

<400> 30086

gctacccgat cccaaggacg gatcatttta aaggaaactg ccaaaatcaa gtgccgtgcg 60

attgattgac tttggtagtg cagcatacca tcaccaggat cgcagtttca ttgtgtgtac 120

cacacactat tgcgcccttg aagatattta gggacatgga tggagctata catgtgatat 180

ctggagtgct ggggtgcatac tcgttgagct ttgctcgggc gagacactgc atcatactca 240
cgataacttg gcacaccttg caatgatgga tagagggtcta ggctctcttg cactgtacat 300
gctggaaag 309

<210> 30087
<211> 309
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-055-Q1-K1-C8

<400> 30087

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agggttcgtg tccaaacagc cagttcaccc gttccttata ttccgtcgtt cagctggcgt 120
cctctctctc tcttggtggc acgactgggt gacctccccg ccccgccgc tctacgccag 180
gtgcccaggt cttcctcggg cccttcgccg aagagcagcc aacaggtaag catggctcag 240
aaaatggcaa ctgttgagcg agtagaagag cttctcgaga agctgcgtgc tgcttctctg 300
gatcatgct 309

<210> 30088
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-C9

<400> 30088

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ctcagtgcta cgagaacccc aagcacaagg gcaccgctgt ccccgccgac gaagaagaga 120
tctgcggtgc cactttcaag gtggtggaag ggtctactgt cctgacggcg ctgactgat 180
ctatcatcat caggcggagg cgatgcgatg atgatgcaga actttgtaca tgcgttggtg 240
gatggtggtg taacatagtg gctgccaaca agtcatgctc atgcaaaccg atgaatctat 300
ctctgtatca tcgatctcgg ttgcttgcta gtccagactc cagacatggc tatatatata 360
tagct 365

<210> 30089
<211> 191
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-D1

<400> 30089

cccacgcgtc cgcttccatc caagattcat gtcggtgtct tctcagctac catgccgggg 60
gaggcccttg agatcacgcg caagttcatg aacaaacctg tgaggattct cgtcaagaga 120
gatgagctca cccttgaggg tatcaagcaa ttctatgtca atatcgacaa ggaagattgg 180
aagctcgaca c 191

<210> 30090
<211> 400
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-055-Q1-K1-D10

<400> 30090

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tttggttctg aaattctgcc caaggctttg catgagcaca atgtacaggc atatgttttc 120
actgactact gggaggacat tggaacaatc agatctttct ttgatgcaaa catggccctc 180
tgcgagcagc ctccaaagtt cgagttttac gatccgaaaa caccattctt cacttcccct 240
cggtaacttg caccaacgaa gtcggataag tgcaggatta aagacgcgat catttcacac 300
ggctgcttct tgcgtgagtg tgccatcgag cactctatnt gtggtgttcg ctcacgccta 360
aactctggat gcgagctcaa gaataccatg atgatgggtg 400

<210> 30091
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-D11

<400> 30091

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cgtattgtat gttagtgtag gatgcgctgc tcgcattgca ctggtattgt gcttctgttt 120
 ggtggaaata aagattgggtc gaaatctgag ggccaaatca aaaaataaaa atataaacat 180
 aatggaagaa gacacaatat ctcgagtata acgatacaaa atacaagata attcagttcc 240
 ggtaaacagc tatgcctcca ttgaacctaa ataagtcttg atgggggggc gccctcttta 300
 aagaccccag gttacctgcc c 321

<210> 30092
 <211> 364
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-B6

<400> 30092

cccacgcgtc cgcagctagc tagcgttcct aatcacgcac gaataatctc ttcttcacct 60
 cactaacacc gagctagcag ctgcgtctgt cctgcaacaa tggccgctcg ctctctctcc 120
 cagcagctgg tcgcggcggc ggtcctggca gcggcgctgc tgctgctggc ggcgggggcc 180
 gggacggcgt ccgcggcggt gagctgcggc gaggtgacgt cgtcgggtggc gccgtgcctc 240
 gggtagcgca tgggcagcgc ggcgtcgccc tccgcggcgt gctgcagcgg ggtgcgctcg 300
 ctcaacagcc gcgcgtcgtc ggcgggcggc cggcaggcca cctgcaactg cctcaagagc 360
 atga 364

<210> 30093
 <211> 332
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-055-Q1-K1-D12

<400> 30093

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 ggacaaggag attgcttggg gggaggagta tgcgaggaga ggtctcgaac atggagaacc 120
 ttgctctgct ttggggcatc atcgggcccg gcgtgtacga gtccatctac cgtgccggat 180
 ggcggtctcg gggggacgcg gtcgattgca gctgcgtcca tgtcttctta ctccactacc 240
 ttccagggat ctgcgcttcg ctggcgggcg tcatgttcaa ttgcgtgtac aaggatcaga 300

tcggatatca ctattacgca ccctacgtgg ac

332

<210> 30094
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-H9

<400> 30094

atgtaaacga agccgggggaa cagtcgacgg ctaaggccca aaaggcaggc agccatcacg 60
atggctcttg cccacctccc cttegtcttc ctcttggtgt cgtccgtcgc cgcttttcgcc 120
gccgccgacc acggcctcac gcacatccac ctgtacgtgc acgagacgta caccgggggcg 180
aacgccacgg ccgccgccgt gctgcagtc cgcgtgggcg cctactcgtc gttcggggagc 240
atgggctgtg tggacgacga gatacgcgtg ggcccggacc ggtcgtcgc tctcgtcggc 300
cggtaccagg gcgtattctt cggcacgagc gtgcatcttg gcgccggctt cctgtcgtcc 360
atcacgc 367

<210> 30095
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-A10

<400> 30095

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ctgcaggaca tctattgttg acttccacag aacctgcaat aaatgtaact atgatctctg 120
tctccagtgc tgccaggagc ttcgtcagag ccttgtttct ggtaatgatg ccaagggttg 180
tggtggaggc aagcaagatt ttctatcggg agttagtcac gataaaatca taagcgaagg 240
gccatccgat ggacagaatg acatgttgat agatagcgta gttcctgggtg aaaacaacac 300
ttctagcttg agacagtgga gtgtgaataa aagatgaacc ataccttgcc caccaaagt 359

<210> 30096
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-A11

<400> 30096

gaaccctgca gagttattag aatgccactt cacaggggtg aaggctctgg agaattgagta 60
tggttctggt gaaactgtta agcaggggaac agaaatagtt cagagagctg tcaccaaattc 120
attccagtcc ctacatgaag catacaaagg aaaaattggt gggctggtaa tatccacaaa 180
tgaggctcca tcatccttag gatccataat tgacgcacca ttttactgc acatttcaag 240
acggctagaa gaagcaagca agactacaga tatagcctcc gtggtactcg ttcggaagag 300
cttggcatgg attacagga tcatcctgct tgtttcaact ctcatagggg tttgcttgct 360
tatgaacatg ccac 374

<210> 30097

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-A12

<400> 30097

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ctcttggtcg tgactcgctc ggtcggcgga agaaggggcg catcgatctg ggcgctgcta 120
gctgcgagag cccaatatgc atccgaccat acaatcgact gaccgtctc tctcggcagc 180
gtctgaatct gcaactgggc gaccactcct ctggcgctcaa gtcactgcac cctatcggcc 240
tgcgtcgcat atttaactaa acgctcgcg ccatacaaaa cggagatcta ttg 293

<210> 30098

<211> 242

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-055-Q1-K1-A2

<400> 30098

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gacaagaaag gcgctaaagg tgttaccctc agactcctta accaggcaca taacctcaac 120

agaaatggag aactttatct tcataagtgc ccaaagtgtg gagtcagact catagatggc 180
 accagcttag ctgatgcagt atttgtgaat agtgttcctc aaggcacaga tcaagttggt 240
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<210> 30099
 <211> 317
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 30099

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 tgcgagagtt ggtcgtactg atggtacttg gtagcatccc tgcctgccct gttctttgag 180
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 gcatgcttcc tttaagtaga ttgccagtag tatctgcgta tggtagagctg gtcngtcctt 300
 aatgtctgtc cccatgt 317

<210> 30100
 <211> 323
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-A5

<400> 30100

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 attccagtcc ctacatgaag catacaaagg aaaaattggt gggctggtaa tatccacaaa 180
 tgaggctcca tcatccttag gatccataat tgacgcacca tcttcactgc acatttcaag 240
 acggctagaa gacgcaagca agactacaga tatagcctac gtggtactcg ttcggaagag 300
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<210> 30101
 <211> 398

<212> DNA
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 ataccagtcc ctacatgaag catacagaat gaaaaatggg tcgactcgca atatccacaa 180
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 gaccgctaga agaagcaagc acgactacag atatagcctc cgcggtactc gttccgaaga 300
 gcttgacatg gattacatgg atcatcctgc ttgggtcaact ctcatagagg gttgcttgct 360
 aatgaacatg ccacataccc aggacaccct cctgtact 398

<210> 30102
 <211> 262
 <212> DNA
 <213> Zea mays
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 gatttgaaga ggcagatgga cagtgccttg catgatgcct ccgtgttttag gcttattatg 120
 gacttgctca aagttgttct gaataagtgc caggaaataa ggcctctatc ttatttaggc 180
 ctctatcttc ggggtagctg actaagtgtt gttattgcta cggaatccag aattctgtga 240
 attgaaatga attgtaccga tg 262

<210> 30103
 <211> 385
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-055-Q1-K1-A8
 <400> 30103
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aggcttcaag ggcgaagggtt gcgcgagcgc aagaaacccc agctgaagcc cctccttcag 180
aacctgctgc tccagaagat ttcacgggtg aacatggcat tggagacgcc acatgtcctg 240
atctgaccgc gcaattgggtt gcttcgaacg aagtcaccagt ccatgggtga tcagctgagc 300
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gaagttgaat cgctcgaagt gtcat 385

<210> 30104
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-A9

<400> 30104

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caatcgcgat tcataatgga aaagaacata tacctattta cataacaaat cctatggtag 120
gtcgcaaatt gggggaattc gtgcctactc ggcatttcac gagttatgaa agtacaagaa 180
aggatactaa atctcgctgt taattgaatt cagaatagaa agattcagaa taaacaaaat 240
ttataggatt caaataatca aataaagtaa aggtaggcgg gtaataacct tatttatgac 300
aagtttcaaa ttggtaaagt atacccttag gataaagaag aagaaggggc tgagaaaact 360
cgcaagaaaa gttccaaccg atcgtctact taaattcgaa cgggttttca aagcacaaaa 420
acgcata 427

<210> 30105
<211> 356
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-055-Q1-K1-B1

<400> 30105

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ttgtggggtt ccttcttttag attgtgggtt tcaactgtctt ccatccaaga aacactgtac 180

aaatcaccta aacaggtaat gtactcagga gggggatgatg aaaacaagaa cctcaaactc 240
aaataagtac aaagaggggtt ctcatgttat ggagtatggg gataagacct tcaaggatga 300
gaagctntcc ttttatcaag gttttgatcc tgctaatgcc aacattgcaa acatgc 356

<210> 30106
<211> 401
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3067-055-Q1-K1-B11
<400> 30106

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ttcaccggag gcgaccacat cccctgggtgc gaccgcgacc tcacgcgcgg ctgtgaagga 180
gagcttgtca atgctgtaaa tgaggaacaa aggaatgaaa gccttatgag gttgtcatgg 240
gcccttgtgc actccaggca gacagacgat gtaaaccgtg gaatcagcat gcttcaagct 300
tctttggata attctgccag tcctctgcag actagggaaa agctgtactt gttggctgtt 360
ggattctaca ggattggcga ctactcaaaa agcaggcaac t 401

<210> 30107
<211> 403
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3067-055-Q1-K1-B12
<400> 30107

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agatctctag taaagaagtgc gcagacattg attgaagccc atgttgatgt caagacaacc 120
gacaactaca tgctgcgttt gttctgcatt ggttttacca agaggcgccc aaaccaggtc 180
aagagaacct gctatgctca ggcattcccag attcggcaga ttcgccgcaa gatgggtgag 240
attatgatca accagtcttc tacatgtgac cttaaagaac ttgtttctaa gttcattccg 300
gaagttattg gcaaagagat tgagaagtct acctccagca ttttccact gcanaacgtc 360

ttcatccgca aggtgaagat actcaaagcc cccaagtttg atc

403

<210> 30108
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-H8

<400> 30108

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agacgctgct gttcgccgcc gtcgcaggcg tgctgctggt caggaaaaac gaggacgtcg 120
agtcgctgaa gaagctcgtc gacgagacca cgttctatga caggcagtgg caggcgacct 180
ggcaagatga ctccgctggg ggaccaaaca actagttcag cgttgtggta caaaaaaaat 240
gcaaaacgct ttcttgttac gtagcttata tatttctctg gccttcttgt tttccctgtg 300
tagtgagatc tttttttttt tttgtttttg acaaacgcaa tgatctacgt catgttgtaa 360
aattgtatgg aaaataattc tgcagtttca gttttttttt 400

<210> 30109
<211> 158
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-B2

<400> 30109

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atgtgctaag atatgccggt gttgtgttac atgttttctg gataggtctg gttaaaatct 120
tggtctgttt tacggcttgc gggtttcttg ttggtgcc 158

<210> 30110
<211> 166
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-B3

<400> 30110

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gtgagagctc gtactgtgtc tgtgtgactg tgtctgtggc cgtatgagca tttagccctg 120
 gatctgtgtt tgttactctg tcttcttcgg gaacatcgat tatctc 166

<210> 30111
 <211> 140
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-B4

<400> 30111

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 ttgcaccca tgcggggtta 140

<210> 30112
 <211> 377
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 30112

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 aactacaagg tcgtttacag gcgctacgcc tcccttttct tcctcgtcgg cgctgacagc 120
 gatgagaatg agttagctat ccttgaattc atacatcttc tggtggaac tatggatcgc 180
 cacttcggca atgtgtgcga gctcgatata atgttccatc tggagaaagt gcacttcatg 240
 ttggaagaga tggatgatgaa tggttgcatt gtggagacaa gtaaacagaa catcttggca 300
 ccaatacaac ttatggagaa aacttnctaa aatagtata tccatttgtg tagttntaca 360
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<210> 30113
 <211> 440
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-054-Q1-K1-G2

<400> 30113

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gcaccccttg tctagtctat gtttggttaa cagcccaac agcagctcta gggagatttc 180

tacccttag atgctcagtt tcaccaacta gtttatcaac aaccctcag aatttttattc 240

aacaacaatt agtcggttga actcctatct ggacgattaa tcaccgttta atcgtggtta 300

gtgttacgat cagagttcta gttgccctag tcgcgtcgtg caccctaact gatcttgcaa 360

tggcgataag gccgactaat tgcgactaat cgtgattagt cggacgactn caaaacatgg 420

ctaggcacat gtatttgcaa 440

<210> 30114

<211> 272

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-G3

<400> 30114

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aaacaataaa aaaaaaaaaa aggaaaaaaaaa ataaaaaaaa aaaattcaaa ttaatataat 120

ttattacaat attatacaac attacatatt actttattaa ctcatctata ttacatcta 180

attccacttc ttttaccac ttttttacta ctaataccct tcctaattccc aactctttct 240

caatttaata cattttcctt tctttacctt tc 272

<210> 30115

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-G4

<400> 30115

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actatacgag tgacaccggt tgaaaaaata tacaggggaa agcaaaagaa tgctggcatg 120

agataattgg ttgtgaattg cagcacaccg attgcagact cattcaactt ccccatgttc 180

ctccttcaca gcatttcctg agacctgagg acacattgcc taaccttctt cttgaactca 240
 ttccgcttct ctctccaatc cttggcagct tcaatatttg ctggagactc gtcattcgga 300
 ctagagagca ttgaaatgat gctcagaact 330

<210> 30116
 <211> 244
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-G5

<400> 30116

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 cactggaatc atttggtcaa ggtacagctt gggtatcaca ccgaaaaact ggaacctttt 120
 cagtgttaac gttgcaatgg cgggtacagg cctgtatcag ctttcacgga agattaggca 180
 agattacttg tctggtgaga aggatgctgc tccacaactg caagaataga taatgacaac 240
 acac 244

<210> 30117
 <211> 436
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-054-Q1-K1-G6

<400> 30117

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 gttcttgcag atcctggaat gttgagtaaa acgttgcctt gtttggacag ctgcagtttt 120
 cagcgggaata aataactata accgtgttac tgctagacac aaagccttct ctgaacaaag 180
 cttgcacaca tggtattagt tcagctagca gcaatttcag tcagctatat agcgcgcctc 240
 attggttgac tgaagtgggtg aatgtctatg ctcaggaccc aaattaaagg cgatgcaact 300
 tcttgctgag atgtcagcta gccggatcag tttctggagg acattatatt ataataaat 360
 atgaagaata catattatng tatatgtcat gggatatatt catcttcaga tgcttgcctc 420
 attatctttt attcat 436

<210> 30118
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-G7

<400> 30118

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tattcaatgg tagtggtgaa ttatctagaa gcaacaaagc aacagattta aaatgccagt  180
tatagagtta ggcttagttt tagttaaaat attagtgggtg aattatctag gcatacatcc  240
agtcacaccc ctcaacatac cgagttaggc tcagtttttag ttaaacaacg tcttggtttc  300
ttgtgcctac tgatggcttt tcttaatatt atatcaatga catcttaggt tttggaaggt  360
ggtgcagttg tcaggactct tatagatcat agtattcctt ctaatgggga tatcaat   417
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<210> 30119
 <211> 434
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-054-Q1-K1-G8

<400> 30119

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aagccattaa tttccagtgg caatccagcc ggacccttca agtttagtga ggctgaacaa  180
gaacagatgt tggagctccg agaccagggt ttcagagtat ggggtctttt gagatcctca  240
aataactttg atccgagncc tttgcaacca atcgttcagg tgctacaaga accagaggcc  300
cgcgtcttgg gttctcgtgt cgcagtgggt gtaacacagc gccttgcggc acgtctgctg  360
caacagcttc tcaggatccc ttctcctgga tcttcgtaac agattatata gagatgggct  420
cgtatgaagc atgt                                           434
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<210> 30120
 <211> 366
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-G9

<400> 30120

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gtgtaacctg gcttccggca tggcttccaa gcagatcgga gtcttgacct gcttcattgc 120

catcacgct ctcgccttcc gtccctgcgc attcgccgtg cccatggacg gtggctggtc 180

gaacggctgc gccacctggt acggcccagc caagggcgct ggatccgacg gtgggtgcgtg 240

tgggtaccag ggtgccgtcc accagccttc ggtctcgtga atgatcaccg gccgcagcca 300

atccatcttc caggacggca agggctgctg cacctgctac caggttaagt gcacctgaca 360

cgcctt 366

<210> 30121

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-H10

<400> 30121

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atgacgtttt ggagcataca gctcccgctt ttttcagaga tttgtgtcac ctttttgatt 180

tgcttctggt gctactcttg ttgccgcac aaaaccagct aacgctgttt tgcgtgtca 240

gtggtttatt tgacaatgtg taggagattt ccacc 275

<210> 30122

<211> 363

<212> DNA

<213> Zea mays

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<400> 30122

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ctgcatatca aatatactga ccactacctg ccagtatgag gccctcaagt atgtaagctt 120

ccctgtccaa acgcttgcca aatgcgccaa gatgatacct gtcgatgatct ggggcacaat 180
aataatgaga aagaagtatg ttgcaaaaga ttacttcttt tctgtcgtcg tgactatggg 240
ttgcgcattg ttcattctat atccggcgtc gatggatgtg agtccattta ataaaggcag 300
agaaagcact atttgggggtg tttcactcat gtcggttat cttgggtttg atgggggtcac 360
aag 363

<210> 30123
<211> 353
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-054-Q1-K1-H12

<400> 30123

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agcttctctcc ccaaagacca cccgctccgc aaggaacctg aattttatgt tctgaaagaa 180
gatgagtcac cctgtatttt tgggtccaatc gtgaaacaac gatggtccta tgcttgcgcg 240
aagcaactta ttgagagact tatatttgct gaaggtgcag aaaatggcct ngaattcaca 300
atcgtgagac cttttaattg gattggggcca aggatggatt tcattcctgg tgt 353

<210> 30124
<211> 203
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-H2

<400> 30124

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cctccccaa cccccaggcc gctgcactgc aagccgaggc tgacgctgca acattagaga 180
gcctcaacga gcacacactc agc 203

<210> 30125
<211> 433

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-H3

<400> 30125

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tcgcggtgtg tcttcgtcac cgcttcgccc acgcacacgg acggcagggc gtggggcgac 180
gacgacgcgg agggcagcgg caactgctac aaccagacgt cgccgatcag cgccgcctcg 240
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cacacgcaga cctacaagaa gcagtgggtg gagccgactg ccgagcagcg cgccgacccc 420
aggagctacg ccg 433

<210> 30126
<211> 441
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-054-Q1-K1-H4

<400> 30126

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tgtgtcaag gttggcatgt cctgtgaggg ctgtgttgga gctgtcaagc gggtcctggg 180
caagatggaa ggcgtcgagt cctacgacgt agacatcatg gaacagaagg tcaccgtgaa 240
gggcaatgtg acacctgacg ccgtcctgca aactgtttcc aagactggca agaagacttc 300
gttctgggag gctgaagccg tgacaagtga atccgccaca cctgccggcc accgcctgac 360
aggttcgatg atctggaagt gccagcaaa aaaatgtgaa tgtatntagc ttggatctgt 420
tacaaataat tgcaaactgc t 441

<210> 30127
<211> 434
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-H5

<400> 30127

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ggacaggatg gcaatgaggt gttctttcgc ataaagaggt ccaccagct gaagaagctg 180

atgaacgcct attgcgaccg ccagtctgtg gacatgaatg ccattgcatt cctgtttgat 240

ggccgcaggc ttcgcggcga gcagaccct gatgagctgg agatggagga cggcgacgag 300

atcgacgcca tgcttcacca gaccggaggc agcgcttcta gcaccaccta aaagcagcag 360

ctgcggagcc tcgttttgct ctccgccctg cgtagtacta aacaaaaggg aaaaagtctt 420

tttaaggaac ttgt 434

<210> 30128

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-H6

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tcgggggcat cgccacctcg ctgctcttct ccgccttcga gtccctggctc gtcgccgagc 180

acaacaagag aggctttgac ccgcagtggc tgtccataac attctccaaa gccatcttcc 240

ttgggaacgg cttaattgcc attgtatctg ggctatttgc gaaccttctt gctgagaact 300

tgggttttgg tcctgtggct ccatttgatg cggctgcgtg ctttctggcg attggcatgg 360

ctatcataat gtcctcatgg agtgaaaact acggagatcc atctgaaagc aaggacctga 420

tggcccagtt caag 434

<210> 30129

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-G12

<400> 30129

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cgcacaaaat aaacagcttc aacacggcac ctaagaagct gttggcatct gattcccggc 180
tgaagcccga tagatatgcc ctcgagaagg gcgacatgtc caagtctggc tcagaaaaga 240
gcaggctgga ggagcagcag agagccgaga aaaggactcg agaggccaag ggcgagcagt 300
tactccgcy atggttcaac gtgacggatg cggtcgcctt cacgccgtgg ggtgacctgg 360
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<210> 30130

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-H7

<400> 30130

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cggcgggcat agcaacctca aggcgctgat gtgagtcgta gtccctggctt gtatccaatc 180
acaacaagag aggccttgac ccacagtggc tgtccataac ataatacaaa gccatcttcc 240
ttgcgaacgg cttaattgct attgtatctg ggctatttac gaaccttctt agctgaaaac 300
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<210> 30131

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-E4

<400> 30131

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accatctgcg gctggtttat gaggcgaacc ctctcagttt ccttgctgaa caggctgggg 120

gtagaggggtc agatggcaag aacagaatcc tcaccattca gcctgtgaag ttgcaccaga 180
 ggctgccttt gttcttagga agcatggatg acatgcttga gttggaaagc tacggagatg 240
 tgcagcagaa ggtcaatcct ggatatgaag tttaacgata tgtaaaaaaa gggttcagatt 300
 ttttcaagcg cccaagcaga aaataaggta acactcgtgt ggcaaccctg tatctgccga 360
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 ccagttgttg ttatt 435

<210> 30132
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-E5

<400> 30132

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 gagtgttaaa gccacacta actggcctac atttccacaa atatttatca aaggagagtt 180
 tgttgggggg tctgacatca tattaagcat gcaccagaag ggtgagctta aggatcttct 240
 tggggatatt gcacaaagag acgaacaaaa agtgcattgct cacgattcat gaagcaatca 300
 acagtaggtt cttttactat gcgctatcta cttagccact aaaatgttct atctcggagt 360
 ctttaggcga cagcgtacgt gacattgtga actgtcctac gcattggaca tggatgaccg 420
 gatgtgttc 429

<210> 30133
 <211> 123
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-E6

<400> 30133

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 ctatgaatgg tcgaatgaaa cctgtagcgt attatttgag tacgttttaa gacaggtttt 120
 ttg 123

<210> 30134
 <211> 394
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-054-Q1-K1-E9

 <400> 30134

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 gggttagttg ctgaaaaccg gaatggagat agaaagagca ggagatctgg tagatggggc 120
 ttgttaggga ataacttcac ggtcgctctc atgggttcaac tgcgtgaccc actacgtaac 180
 tactagccag tgggcacacc aatgttcgcg ttaattcaag ttgaaagggt ttttgtaccc 240
 ccgaagccca aaatctacag taccgtctca gacaaaggca acagcgagca ggatgactag 300
 gaaccaagg ccgaagaggt tccagacaag gcattgggtca cggaagagaa agctgaagaa 360
 ttagaggatc ccgttcccca attcaagggt tcag 394

<210> 30135
 <211> 227
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-054-Q1-K1-F1

 <400> 30135

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 gagtttgggc aacggcagcg gctcagctcg tcaagtttgt gctgggatgc cagtttatcc 120
 cttctagtct attacagaaa tgttgttcgg agctgagtct attataaaca tcttgggtctg 180
 agtttattgt tgagtgggtgc cagttttttt caatatacat ttatctt 227

<210> 30136
 <211> 337
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-054-Q1-K1-F10

 <400> 30136

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cggatcgtgc gatcggccgc caccgacgg cccgcggtg aggcgtggtc tccgggaggc 120
agccaaccta tcccacccgg tctagcctct agcgatcccc gcgccggcag cgcgcacgag 180
aggaatggac gcgtcgacc cggagggcga ggccacggct ggggtggctga cggtcgagga 240
gtggagcggc tcgtcagcct tcgcgtcttc ccgcaccgtc gtcctcaccg ncttcggctn 300
ctctctcacc gcacacaggt tcggcagccg gtggggag 337

<210> 30137
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-F12

<400> 30137

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tgccaggaac gataaggcaa ctatacttgg tgacacaatc cagatgctga aagatttgac 120
tactcaggtg aacaagctga aagctgaata caggtcactt tctgaagaag cgtgtgagtt 180
aacacaagaa aagaatgagc ttagagatga gaaagcttca ctgaaatctg aggttgataa 240
tttgaataat cagtatcagc aacgaatgct ggtgctatac ccatggggttg gaatggagcc 300
ttctgttgtc atggggccac ctctgcata tccctaccca gtcccagttc caataccctc 360
tggtgctgta cccatgcac cgagttgca aacataccac ttcttccaca gtcaagcttc 420
tggaaccatc ccatacacat gcatccctta catg 454

<210> 30138
<211> 313
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-F3

<400> 30138

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaataa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaataaaa aaaaataaaa 240

aaataaataa aaaataaatt taaaataaaa aaaaaaaaat tataaaataa aaaatttttt 300
 ttattataaa taa 313

<210> 30139
 <211> 84
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-F4

<400> 30139

aaaaaaaaaaa aaaatttaaa attaaaaaaaa aaaaaaaaaa aaaaaaggta aaagtaaaaa 60
 taaaaaaaaa aataaaaata atac 84

<210> 30140
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-F5

<400> 30140

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 ctacatcatc tccgtcaagg gcatcaaggg ccgcctcaat cgctcccggt ccgcctgcgt 180
 tggcgacatg gtcattggcca ccgtcaagaa ggggaagccc gacctcagga agaagggtgat 240
 gcccgccgctc atcgtccgcc agcgcaagcc gtggcgccgc aaggacgggy tctacatgta 300
 cttcgaagat aatgctggag tgattgtgaa tccaagggt gagatgaaag gttccgctat 360
 cactggacct atcggcaagg agtgtgctga tctttggcct aggattgcta gcgcagcaaa 420
 cgctatcggt tgag 434

<210> 30141
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-F6

<400> 30141

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 gtggcgggcc ggcgcccgcg cggtagggc gcaggtgtcc accaccgaga ccgcggcggc 240
 ggggccggcg aagacgtcca agaagcagga cgaggggctg gtcaccaaca agtacaagcc 300
 caaggagccg tacgtcggga ggtgcctgtc caacaccagg atcaccggcg acgacgcgcc 360
 ggtggagacg tggcacatgg tcttcagcac cgaatgcgag atccccgtata gaga 414

<210> 30144
 <211> 451
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-F9

<400> 30144

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 cggcggaag gcgcccgcga agcagctggc caccaaggcg gctcgcaagt cggccccggc 180
 cagggcggc gtgaagaagc cgcaccgctt ccgccccggc accgtcgcgc tccgcgagat 240
 ccgcaagtac cagaagagca cggagctgct catccgcaag ctccccctcc agcgctcgt 300
 ccgcgagatc gcacaggact tcaagacgga cctgcggttc cagtcctcgg ccgtggctgc 360
 gctgcatgag gccgcggagg cgtacctggt ggggctcttc gaggacacca acctctgcgc 420
 catccacgcc aagagggtca ccatcatgcc c 451

<210> 30145
 <211> 351
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-E3

<400> 30145

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 aaacagctct agctagcgcg ctgcgtgtct aacctggctt ccggcatggc ttccaagcag 120
 atcggagtct tgacctgctt cattgccatc accgctctcg ccttccgtcc ctgcgcatcc 180
 gccgtgccca tggacgggtg ctggtcgaac ggctgcgcca cctggtacgg ccagccaag 240

ggcgctggat ccgactgtgg tgcgtgtggg taccaggggtg ccgctcacca gccttctgtc 300
 ttgttaatga ttaccgccgg cagccaatcc atctttcatg actgcaaggg c 351

<210> 30146
 <211> 333
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-G10

<400> 30146

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 gcgtctaacc tcgcttccgg catgggtctc aatcacatcg tactcttgac ctgctacatt 120
 gccattaccg ctctcacctt ccgtccctgc tcatcctccc ttcccataga ctcttgctag 180
 ttcacactgc aaaacaacgc tctcagcata ctcatatacg cctccttaca tcagagcttg 240
 ataattcgca tcatcagttt catcatcaaa ttctcgttct attcccatat atctgaatgg 300
 aaccttctcc tatcatatgt ccaccttttg cat 333

<210> 30147
 <211> 205
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-G11

<400> 30147

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 actgcaactg tcgaggggga gtgattctga tgtttggtg ttcgtttgca tgatgaccag 120
 gttttagttt gtctggccat gcttgggtcg catcaatctg tgacacgatg aatatcactt 180
 tgtcaaccta ttcttctcac aaaat 205

<210> 30148
 <211> 293
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-C8

<400> 30148

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ggaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aattaataaa aaaaaaaaaa aatattaataa aaagaaagat ggaaaaataa cagaatagga 240
attgaaacaa atgaaaaaaa caacaatatg cgcaaattga ataagataat ggg 293

<210> 30149
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-D1

<400> 30149

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catgacaaga tcttcaaaga cgctcaccaa gaggcgctgg agaaggagat ccagcggctg 120
cgccaagtgt accagcagca gcaggtcaag gtggccacca ccggcgggcg cgacatcgcc 180
accgccgcct cgccgctgat gcaggccagg caagagctgc tcgcgtgcga gggcgctgct 240
attcgatagc ggaggcgggc gctgcggcgg cggcgttcac gcccctgtta ctgttagtag 300
cttaattaac ttttgtgcag tctgatcaat acgtgttggc ttgtttgttt gctgcttctt 360
aatttaattc gtatgtgaag tattctgctc accctagcaa aaaaaaaaaa aatgca 416

<210> 30150
<211> 261
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-D10

<400> 30150

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ttccggtaca cccaatcctt ccgcagggat accacatcca atataggatca agttcaagat 120
cctagctcag ggttccacca tcatcatcac caccaacaca tcatcatctc gcatctcgctc 180
cagtctatgc ttgatctata ttggatgtgg tatcactgga gacggcttgg gtctggggga 240
tgcgatgatcc tgctcatctc t 261

<210> 30151
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-D11

<400> 30151

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ccggatccgc gactcgttca agcacggcta cctccagaag ctggagctca acctcggcaa 180
catgaagcgc gcgcagcggc agcgccaggg ccggcagggg gagagccagg aggaccagga 240
cggccagccc ggcggaacg ggaaggcgcc gctgctcgag gaccgctcgc catcggggtc 300
cgtgcttgcc ggcgcgctcg agctcgctg ggacgccgtc ttgctctca cctgctgctg 360
ctgttgcttc tgctgcggag cctgtagcga cgaaaaggat cacccaac 408

<210> 30152
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-D12

<400> 30152

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ttgaagactg tcgaatcatt ccttaacaag taggataaga tcgcacacag aagacaccgt 180
cgatgttact ggctggtttg ggaacgggta cgctccaaca acaactcgtg acggtcttct 240
gcaatctctg tgatcattcg catctacccc tctgctgaca attgtgtgct gaaaatgttt 300
gtttttaatc agcttagata gctcaacgca caacgcctct ggaaactggt gatctgaata 360
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tacaccc 427

<210> 30153
<211> 438

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-054-Q1-K1-D2

<400> 30153

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cggaccagca gcgtcttata ttgcccggca agcagctgga ggatggacgc acccttgccg 120
attacaacat tcagaaggag agcacccctcc acctggtgct gcgcctcaag ggaggaatgc 180
agatcttcgt gaagacattg actggcaaga ccatcacctt ggaggttgag agctccgaca 240
ccattgataa tgtgaaggcc aagatccagg acaaggaagg tatccncccg gaccagcagc 300
ggctgatctt cgccggcaag cagctggagg atggctgcac cttggctgac tacaacatcc 360
agaaggagag caccctccat ctggtgctcc gcctgagggg cggatatgag aatcttgtga 420
agaccttgac tggcaaga 438
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<210> 30154
 <211> 439
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-054-Q1-K1-D4

<400> 30154

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ggacttctac ggcaacgacc agagcaccat gatacaggcc atccagcaga acattacgga 180
ggaatgggct gatgaggaga agaagtggga ggctgcccgt agccggacaa agacctgcgc 240
tgacaagtac gctgcagaga gcgcgaagct ggctgcacg gcgtacgagg gtgtcgacca 300
agactccacc tnggaagatg actacttctt cgccgcgctg ccggtgggtc agaagaggat 360
cgcccaaaga ggcgtcaggc tggccgcgat cctcaacagg gatattggtg ggaacagcag 420
atcaagcttc agagcagtt 439
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<210> 30155
 <211> 429

<223> Clone ID: LIB3067-054-Q1-K1-D8

<400> 30157

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attcccgggtg attaaacaac taccttggac tgacttataa aattttattt atttagaatg 180
gtcccttttt ttaatttaaa taatttcttt tttagattat catattattt tttcattttt 240
tatttttata tttcattatt ttattttttt aattttcttt tttctttttt ttctttaatt 300
atctttttgt ttttttttat tttttttttt atttgtttat atttttttta tttttctatt 360
tttctttttt attttatttt tttattctct tttttttttt ttttattttt ttttattttt 420
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<210> 30158

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-D9

<400> 30158

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tcgtgtcttg cagcagcggc aagtgcaact gcggtccag ctgctcctgc ggcagctcat 120
gcaactgcat gtcccctgac gtggagaccg ccgcccag cagcatcaag accatggtcc 180
tcgtgcgcc gaccaccaag gccagcgccg gcggttcga ggcggccacc gagggcggt 240
gctgcgactg caacacctgc aactgcgga ccagctgctg ctgctcctgc tgcagctgca 300
actgagccgg cccgcccggc ccggcgatgg ctcacgagag tcgagaggac tactactact 360
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<210> 30159

<211> 392

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-054-Q1-K1-E1

<400> 30159

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caagccattg ttgcaacctg catgtattga aggagcttca ttagctcatg ttcgggatgg 120

ccaaacttca accttgcttc catctatagc ttcctcaaga cctgcatgtg tcttcaattg 180

gagaagcctt gtgccaaata gcgagcaatc ttgacagata catgaaagcc ctaagcacca 240

at ttgaggag atggacatnc acaggcgctt gcatttatta gttgatgagg attattaacc 300

cgggacaaca accattcact ccactccaat tctacaaaag gaaggtccag aactagcatc 360

ccagatgatc gaaggattcc tccatgccac ta 392

<210> 30160

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-E10

<400> 30160

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ggaagaaaaa aaaaaaaaaa aaaaaaaaaa aaaagaaaag aaaaaaaaaa aaaaaaaaaa 120

agaactagaa agggataaaa ctaaaaggta gtttctaattg gttcaactga gtgacaaact 180

acgtaactac gagccagtgg gcacaccaat gttagcgcta atacaagttg aaaggattat 240

tgtacaatca aagcccaaaa tctacagcac cgtataagac aaatgcaaca gcaagcaaga 300

taactaggaa cataaggccg aagaggtttg agacaaggca ttgggtcacgg aagaga 356

<210> 30161

<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-E11

<400> 30161

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atgtttaccc tagtccagag ggtttatctt cgttcgtctc gtttgttgtt gcccatctgt 120

gtttttgatt gcaaggctcg tctgtgtcag ttgttagtgc tgtgttcac ctcgggtcca 180

gcagacccat gcatcaacca gcatggactg tggatcgatg gatgctgtta ctctgtcag 240
gatttgttct aagttaatcc taaggaaaaa atgggtgcttc ttgggtgctgc 290

<210> 30162
<211> 240
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-E12

<400> 30162

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cctttctgat tgtaacgtca ctctatctca gttgcttcta ctctgttcat actaggctac 180
ttcgcaccca ttcattaacc aacatggtct atggctcgat tgattctgtt acttctagtc 240

<210> 30163
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-E2

<400> 30163

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tctacatgct tgatgtgctg taccgcttcg tcaacacata catctaccgt caatcggaca 180
gccactacgc agaataccga gaatgttaca cacatacatg aaagctcgta gcacgcattt 240
tgacgagatt gacattcaca ggcactgccca tttattactt gatgagattt attaaccggg 300
gacaacaacc attcactcta ctccaattcc taaaaaggaa ggtccagaac tagcatccca 360
gatgatcgaa ggattcctcc atgccactaa tagtgacatg cctagtatta ccattcaagg 420
ttgca 425

<210> 30164
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-C7

<400> 30164

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gatgtgtctc gaaatgccag taaagcaaaa gacataatcg atcaatgcga taattccgag 120
gggcagccgg ctgcagagga ggggcggccg gcggcgtgct gcagaggagg ggcggccggc 180
tgtagaggag gggcggccag cggcgtgcta cagaggaggg gcggccggct gtagaggagg 240
ggcggccagc tctgtgctgc agaggagggg cggcttcagg taagttaggg tttaggtttt 300
gtaatgggcc tttggactgg ttggaccgaa ctggggacaa gtctgccgac ttgctagccc 360
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<210> 30165

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-B10

<400> 30165

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ctggtaggcc aaaccatgtc acaaatgtgg agaggcggaa gggtcgcagc catcttgaat 180
accagccagt ctgaccccaa atcaaactcg cagacttcca acagagcctg agcatggaag 240
aacgaaccga ggggcctact gcttctggac aagcgttcat gcagcgtgga cacaacaggg 300
ggctactccc aacatgccgc tttgtccage gaaaccctgc ttctacgcct accactaatt 360
ctcaccaaaa tgaataatct 380

<210> 30166

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-B11

<400> 30166

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.gggtctcaac catggccttg gtcacgcagg aagcagagcc tgggtgctaga gaagctccca 120
 gtgccccatg tgttggcagc atatcagcat gaaagatcct atgagccaag agctactaga 180
 ggctgttgaa caagagagga acatccgata taatccttca cgtaatactg ctgttttcca 240
 ccatccaatg ctgggtgatt ttgagggttaa gaaactccat caagaaaagc agttaggaat 300
 gatgggtggac aaaggcctgg tagcaactag gacaggggtg agtcagtacc acctgtctca 360
 ctggcctaaa atgggttgagg tgatcaggat gcttgaagga gacatgctca cagagagatg 420
 ggaggt 426

<210> 30167
 <211> 61
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-B12

<400> 30167

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c 61

<210> 30168
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-B2

<400> 30168

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tggattccgg tgatggtgtg agccacacgg ttccaatcta tgaaggatac acacttcctc 180

atgctattct ccgtttggat cttgcggggc gtgacctcac cgaccaccta atgaagatcc 240

tcacagagag aggggtactcc ctactacga gcgctgagcg ggagattgtc agggacataa 300

aggagaagct tgcctacgtt gcccttgatt atgaacagga gctggagact gccaggagca 360

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aaaggtttag gtgcc 435

<210> 30169
 <211> 353
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-054-Q1-K1-B3

 <400> 30169

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 ctttgcagat gcgattcagg cttatgctgt tgagccgcaa tgaccattg tcctgtggac 180
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 gcattgccat gtgggggttg tgtgactcga tggaaacttt gctgtcttat tgtactttaa 300
 aatccaataa tttgcgcgat tgcggaaaaa aaaaataaat attttaaaat taa 353

<210> 30170
 <211> 481
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-054-Q1-K1-B6

 <400> 30170

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 ttatcttttt ttttttttat tttttttatt tttttttttt tttttttatt tttttctatt 180
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 tttttttttt tttatttttt tttttttttt tttttatttt tttttttttt ttattttttt 360
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 t 481

<210> 30171
 <211> 55
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-B8

<400> 30171

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<210> 30172

<211> 465

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-054-Q1-K1-B9

<400> 30172

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actgggaggc caaacatgt cacaatgtg gagaggcgga aggggtggcag ccatcttgaa 180

taccagccag tcggacccca aaacaaagct gcagacttcc aacagagcct gagcatggaa 240

gaacgaaccg aggggcctcc tgctttctgga caagcgttca ggcagcgtgg acacaacagg 300

gggctactcc cagcaggccg ctttgtccag cgaaaccctg cttctacgcc taccactaat 360

tctcacaaa atgaataatc ttccggcggt gccacatcca ctgagcttca ngaactcgcg 420

cttgttggtg gccgttcaca acagataggt ttggatgcgc ttggg 465

<210> 30173

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-C1

<400> 30173

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aggatgtgta agagtatgca ggctttgtgg gaagatttta taagaacatg cgaggttcgt 120

ttgaagaatt taactggttt ctatggataa aagccagctt gtgtggactg tttcatctgc 180

aatctctgta gaagcaacca acagagtacg gattaaaagc caagtgaata gactgtatga 240

tgtaaattct gttgtagatc ttcattaggt ccattgttaa cactataaat atgttaatcc 300

tccatgcggc tttcct

316

<210> 30174
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-C10

<400> 30174

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cctgcccag cagccacacc ccgtccgtca ccagaggaag aggaggagga tgtcgggatc 120
gaaggtgtac acccttgagg aggtggccaa gcacaacacc aaggacgact gctgggctcgt 180
catcgcgggc aaggtgtaca atgtgaccaa gtttctggag gaccaccctg gaggtgatga 240
tgtcctgctg tcttccactg ccaaggatgc taccgatgat ttcgaagatg tggggcacag 300
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tcccaattag gtgaatttca cgcccc 387

<210> 30175
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-C11

<400> 30175

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ccacacacca acatgacaaa ctttccaaac caatcggact aaatccgagc aaccgggcaa 180
aatcaaactc agctcgaaac cggcttagcg cggaggcaaa ccaggcccaa gggtttcaag 240
cccccttagg caacaaagga caggacagga acaggaaagg cgaggcactt ggacattggg 300
gcaaagaggg gaaaaccagt ttgcgaccag ggttttttac gccgttaatg caatgctcca 360
cg 362

<210> 30176
<211> 286

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-054-Q1-K1-C12

 <400> 30176

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 taaacaagtc atccttcttc acaacaatth ccaatactac ctaatccatg tgtattgtga 180
 ataaccgcac aagccgtcat gtggtcggcg catcatagta atactacatg acagcctctt 240
 catcttatta ctaatgtagt acatcatcat ccccgataaa acataa 286

<210> 30177
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-054-Q1-K1-C2

 <400> 30177

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 cttggcgttt aactgccag ggactacgcc gacattcttg agttccttgt tgacaggtgg 120
 aaggtggcgg acctgactgg tctgtcgggt gagggaaca aggcgcagga ctacctctgc 180
 acccttgctt caaggatccg gaggctagac gagagggccc agagcagagc caagaaagca 240
 ggcacgctgc ctttcagctg ggtatatggt agggaagtcc aactgtgaaa tcggaaaccc 300
 attgcgactg cttgagttgg agcatagtct atcatgcacc ctaagacgca tcgcgacgac 360
 aagacctggt gtgtcgcgtg acatagttgt tcaggttttg accaaatggt ctgggagcat 420
 ttgttttgcc ttgtg 435

<210> 30178
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-054-Q1-K1-C3

 <400> 30178

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aacctcaaca accaagtttc atgtctgac tcgacgtcca gcttccatct gcctttgatc 180
 cgtttgctga ggcaaagct gaggactctg gtgctgggcc tggaacgaag gattatgtgc 240
 atgtgcgcac ccagcagcgc aacggcagaa agagtctgac tacagtccag ggtctgaaga 300
 aagagttcag ctataacaag atcctcaagg atctgaagaa ggaattctgc tgcaatggta 360
 ctgtagttca ggacccagag ctaggccagg tcattcagct ccaaggtgat cagcgcaaga 420
 atgttgctac 430

<210> 30181
 <211> 220
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-B1

<400> 30181

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 tctagcagct cgctctgtcc tgcaacaatg gccgctcgct cctgctccca gcagctggtc 120
 gcggcggcgg tcctggcagc ggcgctgctg ctgctggctg caggggccgg gacggcgtcg 180
 gccgcggaga gctgcggcga ggtgacgtcg tcagttgctt 220

<210> 30182
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-H3

<400> 30182

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 gacctcggca agcgtcgcgc taagtactac gaggccggtg cccgctttgc caagtggcgt 180
 gctgttctca agattggccc caacgagccg tcacagcttg ccattgacct gaatgctcag 240
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 gagatccttg ttgatggccc tcattgacatt gatcgctcgc cttacgtcac tgagacagtc 360
 cttgctgcct gctacaaggc tctcaacgag caccatgtcc tcctggaggg tacccttctg 420

aagcccaaca tggtgactcc t

441

<210> 30183

<211> 363

<212> DNA

<213> Zea mays

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<400> 30183

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gggtcaaatcc cagttcaatc ttctcatcat cgctgaatgt acagattcag ttcaaagaat 120

gaccgggtcta ctggcatgat cacatatatc ctcatgacat tacatctgac gaactgctgg 180

attctacgtg aggcagcatt gaacacaact cctactgaaa agaagcaaga atcatgctac 240

ttctggctgc agattgtttg gcattgagat aggttctgca gtatcaccag tggctactgt 300

tgctagtgtt ggccaggatc agccacctgc tctgtcattt gacgttgaat ctgatcagct 360

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<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-H5

<400> 30184

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cgatccacgg cgccaaagac gagatcgctc cggcggagga cgcccggcag ttcgcgggcga 180

acatccgcaa ccacgagctg cgcacatcgc cagatgccaa ccaccgttac accgggcaca 240

gggacgagct ggcctcgctg gtgctgggct tctcagctc ccatccctac cagaccacgt 300

cgcgcttgcg tccgagactg tagatagagt agagcacacc cacttgaccg tttgcgaaca 360

aacaaacaca aaaaaaaatc ccctgtacca atccaagagt tgtgggtatg gtgatgtgtt 420

tatccagaac c 431

<210> 30185
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-H6

<400> 30185

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aaagaatgac cggttctactc caatcaacag tcattttgtac tggacaatga ggctgacgaa 180
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gctactttctg gctgcagatt gtttggcatt gagataggtt ctgcagtatc accagtggct 300
actgatgcta gtgttggtcca ggatcagcca cctgctctgt cagttgacgt tgaatctgat 360
cagctggca 369

<210> 30186
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-H7

<400> 30186

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ggcgggcggtg ctgcctcgg cgctcggagc ggagctcacc gcggactact atagcgagac 180
gtgcccgcaa gcgctgacca ccatcaagct cctcgtcggc gccgccatcc tgaggagacc 240
caggatgggg gcgtcgttg tccgcctgca ctccacgat tgcttcgtca atggctgcga 300
cggctccatc ctgctggacg acaccgacga catggtcggc gagaagaccg cgaagcctaa 360
caacaactcc gtgagaggct acgatgtcat agacaccatc aagtcggcgg tgaa 414

<210> 30187
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-H8

<400> 30187

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gaccgggtcta ctggcatgat cacatatatc ctcatgacat tacatctgac gaactgctgg 180
attctacgtg aggcagcatt gaacacaact cctactgaaa agaagcaaga atcatgctac 240
ttctggctgc agattgtttg gcattgagat aggttctgca gtatcaccag tggctactgt 300
tgctagtgtt ggccaggatc agccacctgc tctgtcattt gacgttgaat ctgatcagct 360
ggc 363

<210> 30188

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-H9

<400> 30188

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gcccattgca ctgaactcag ttttggttgc tagagattct tctgttattt tagaggttgc 180
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ttgcccact cggtttctat agaaagacca gtcagcatgt gtggcagcca ggaaactggc 360
atatgtaact gtcgaaatct cctgaacaga atggctgggtg gataccggta taaccatttt 420
ctctaattct cccattctgc tctctatgag 450

<210> 30189

<211> 282

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-A1

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gtgcttaaaa ccctgtgtct acaaaaccca ctgaatctgc cagagttgag gccacatatt 120
ctactgatat tcaactggag aatgaagaag tagataagaa agaagaggac cagcatgcat 180
acacaaccaa tgatgatggt tctaaagagt attgtataat gctcaaatat aaatctgcat 240
aaaataacaa ggcctgattt tttatctaatt gtgcttgaat ct 282

<210> 30190
<211> 179
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-A10

<400> 30190

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aaactaaatc atatacgtaat aaatgaatga ttagtataaa ctctgtgcat gttcaaactg 120
aatgattaga cagtatatata agaaaaagat aaaaggaatt aaatatacaa aatatttaa 179

<210> 30191
<211> 220
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-A11

<400> 30191

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ctcatcatca ccatacctcta tcagattggc ttcttaacaa tactatccta ctcatattat 120
tacttcattc catccatata ccaatccaat ctcatgattc tataactcta ttattaccat 180
atctaataat atataaccat caaactctaa tacactctta 220

<210> 30192
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-A2

<400> 30192

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 cgtttcttgg tcaggaggac caagagcaat ttcaacgctg tcattctcaa gaggccttttc 240
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 gttccagcaa tgaaggttac tgccctgagg ttcacggaga cagcaagggc caggattgtc 420
 aatgctggtg gcgagtg 437

<210> 30193
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-A3

<400> 30193

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 tctgctgacg cggcagccca gccatccaag gagaatccgt ccacccctgg gttggtcaag 180
 gcctcgaagt ttaagaagag aaaggtcaag gccaacggtg cgaagcaggc agtcgctgca 240
 gcagctattg acgaggtcgc cccggtaggt gcaggcactg gtgatggcga tgcactctgca 300
 tcagtggctt taccgcaacc atccgatgtt gccgaggcat tacctgtggt gcaaacgcc 360
 aagtcaacca cttttgctga ggcacacct gtggcacaga ctcaaaagcc agccactgat 420
 gttgaaggat tgggtg 435

<210> 30194
 <211> 396
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-A4

<400> 30194

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agtgtgaacg tcaagtgcta ccgattgggg aacaacaaaa ttggatcagc ctttcccatt 180
 gcagagaact gattatctgg tgctatgctt ctgcaggtac catactgttc aatttgttgc 240
 tgccatctgc aatcgtattg ctacttgca c tgctaaaaag ttgacgaccg agactgaagt 300
 tacttttcat gattttgttg ctgtggatgt ggaagctttc cgatgtatat tttctgcctt 360
 tgtcatgttt atttactgat atgctgtttg ttgatg 396

<210> 30195
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-A5

<400> 30195

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 ggtcgccgcg caagggcggc gtcaaggcca tctgaccatg gcctgcatg aaccgcgcgc 180
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 gttatgatgg cttggtagat ccgaattatt aactgactgc aagtagacag acatatatat 300
 gcgtgtgtgc cttattttct ttactattat atatatgac gttegtttgt gtgttcttaa 360
 aaaaatatat ttattattta atttatttat ttatttttta ttttaatttta ttttattttt 420
 attttttttt 430

<210> 30196
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-A6

<400> 30196

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 ctttggtat ttcttatttt ttttctcttt ctttatttac ttttttttat tttcttattt 180
 tatttttttt ttttttttat tttatctttt tttatttttt aattttttat tatttttttt 240

tttttttttt tttttttttt atctttttatt atttttattat attttttttgt aattttttttt 300
 tttttttttt tttattttttt gttttttatta ttatatattatt attattttttt tttttttttt 360
 tttatatattt tttttttttt tatttttattt tttttttttat tctattttttt ttttttttatt 420
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<210> 30197
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-A8

<400> 30197

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 agtatgatca gttcagagtt aggcaattca gttagtgcaa ggatatttca aattagttac 120
 ccgacctctt tttttattgc atattgatat ctagaataag atcgatccaa atcacttgaa 180
 tgctaatttt gtcaaaagta tccttgtgtg cttaatttaa ccaaactttg ctaccttccg 240
 tcattacatg tatttatcag aattcgcaat ttcgtcctat tttgtaatat ggtgaactga 300
 cctgactgtt tgcttatttg cttgcttggt cccacctttt tccctcaaaa aaaaagagac 360
 tttttgctca tgagctttga gattgccca 388

<210> 30198
 <211> 219
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-A9

<400> 30198

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 gtctgccttg tggctgcgcc ggtcatggtg atggtagaga tggactgtgg cgtaggagga 120
 ggaggagggtg gaggactgta tgacgctctt aagatcattt ctcattttct ataagcattt 180
 atcttgagtc aacaattatg aactgtgatg gtttttaag 219

<210> 30199
 <211> 363

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-053-Q1-K1-H2

 <400> 30199

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 ggtcaaatcc cagttcaatc ttctcatcat cgctgaatgt acagattcag ttcaaagaat 120
 gaccggtcta ctggcatgat cacatatatc ctcatgacat tacatctgac gaactgctgg 180
 attctacgtg aggcagcatt gaacacaact cctactgaaa agaagcaaga atcatgctac 240
 ttctggctgc agattgtttg gcattgagat aggttctgca gtatcaccag tggctactgt 300
 tgctagtgtt ggccaggatc agccacctgc tctgtcattt gacgttgaat ctgatcagct 360
 ggc 363

<210> 30200
 <211> 205
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-053-Q1-K1-F7

 <400> 30200

 tcccacgcgt cctcccactc gtcctaaaaa aataaaaaaa aaaaaaaaaa aaaaaaaaaa 60
 aaagaaaaat ttgaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaat aaaaaaaaaa 120
 aaaattttat ttatattaaa attaaaaaaa aaaaaaatat attttaataa attaaaatta 180
 aatttaattt tattaataat taaat 205

<210> 30201
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-053-Q1-K1-F8

 <400> 30201

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 gtgaagtatg tgggagaacc tatgaccac ttggagtcta ttgcttcttc agcagtgcga 120
 gctgcaatca aagttaaggc atcagtcac atttgcttca cctcttctgg acgagctgca 180

aggctcattg ctaagtacag gccagcatg cctgttctat ctgttgatc tctcgtcta 240
aagacaaacc aactgaagtg gagtttcaca ggtgcttttg aggcaagaca atcactcata 300
gttagaggcc tcttccctat gcttgctgat ccacgacacc cagctgaatc taccagtgtc 360
acaaatgagt ctgtgttgaa gggtgctctt gaccatggca aagcctcggg cgtgatcaag 420
tcccacgacc gcg 433

<210> 30202
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-F9

<400> 30202

cccactcgtc cgaatcttag tggccctctg tcacttccaa ctctgcttc tgcaaatagt 60
ctgtctgctc ctattcgatc ttctgcaggt tatgtaggct ctttgggtga taaacctaag 120
cgactatgg tggaaattaa aggcgcgttc tcagtacat ctgagaatgt ggaccttgca 180
aaggttcaag aaattccagg gagcagtgc tcacgtaaat tgcaagtggg aagaattttc 240
cttggctcct tgttcataag gaactgttac tttgctttag atatatccat ttttccaggg 300
gccttcactg agaaaatcag ccagtgttg cgattggtca gcaaatgata agacaacgtc 360
tactaatcat caaaagaagg aactctgcaa tagctctgta tctacatcaa ttctg 415

<210> 30203
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-G1

<400> 30203

cccacgcgtc cggccaactc ctccgcgcc cagcgggag gcccgcacgc cgggcgcgtc 60
tgctgcaagg ccggcgccga ggactacagc ctacggtgc gcaacggcac ggcgtgcctg 120
gcgcccacca acccgcgga cgagtaccag cactgggtca aggacatgcg ccacagcacc 180
cgggtgcggg acgaggagg ctaccggcc ttgcgctcg tcaacaagg caccggcgag 240
gcgtcaagc actccacggg gcagggccac cccgtcaagc tcgtgcccta caaccggac 300

taccaggacg agtccgtgct ctggaccgag agccgcgacg tctgcaacgg cttccgctgc 360
 ctccgcatgg tcaacaacat ctacctcaac ttcgacgcct ttcacggcca caagggccac 420
 tgcggcgttc atgacggtac cgagatcgt 449

<210> 30204
 <211> 385
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-G10

<400> 30204

tcacacgcgt ctgaccacac catcgaccac gcttacgact ctagatcgcc agcggtcgca 60
 gaggagtggc tttatcgata aggcaactat acttggttac acaatccata ttcttaaaga 120
 tttgactact catgtgaaca agctgaaagc tgaatacact tcactttctg aagaatcgtg 180
 tgagttaaca caagaaaaga atgagcttag agatgagaaa gcttcactga aatctgaggt 240
 tgataatttg aataatcagt atcagcaacg aattctggtg ctatacccat gggttggaat 300
 ggagccttct gttgtcatgg ggccaccttc tgcataatccc taccaggtcc cagttccaat 360
 accctttggt gctgtaccca ttcac 385

<210> 30205
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-G11

<400> 30205

cccacgcgtc cgcccacgcg tccgggcccgc cttttttttt tttttttgat ccagggggaa 60
 agggagtaag cttggccgtg acctctatat caggatatca agtagtaagt ccgtaaactct 120
 agaaattctg tactaaacag caaagccaaa cgaatatgta gagtgagcga acagacggga 180
 cgaatcccaa aacgttttcc tactactgcc ctacagcctt cgttcgcgtg atgtagggat 240
 cgagagcgcc ctcatagcgg tggccctccg agcccgtcat cgttgtcgaa ctcgtgcatg 300
 tgatccaaga ggtagttggc ggtcagctgc tcattcttgt tgcacgcgaa gaacaacttc 360
 aggaccagtg cccggtcaaa gcccatccct tcaagacgaa gtatagcttc gttctccttt 420

ggagtcac

428

<210> 30206
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-G12

<400> 30206

gctcaatcgg ttgcaatgga ctgtgaaccc actctgcaaa tcgggtaccc tctcatcac 60
cagtttctgc cttccgaggc agccaataat atcccaagga gccccctgg aggcgagaac 120
aacttcatgc tgggatgggt tctttgagtt gctctgttaa tcatccatcc atcagatgga 180
tgtccaaact aataaaaaggc actcagtgt accatattgca tatccatgct taagtgttg 240
atgtgccacg acgtgggata tcttttaaat ttatcgttct ggtgtgtaat aactaattaa 300
gaacggcacc ttcatcttat ggttgtgggtg tggcacttct atctatggtt tttgtatttg 360
gaccacgaat gttgtaattt gtaaaaaaaaa atttaaagat ttatctatgc tgccggtgct 420
gcggtgcata gcccggtgca tagaatcc 448

<210> 30207
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-G2

<400> 30207

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tgcagcaata gaggaaggta ttgttccagg aggcggtgca gcatatgttc atctatcgac 120
attcgtaccg gctatcaagg agacgttggg tgatcctgag gagcgcttag gtgctgatat 180
cattcagaag gctttgggtg cacctgcagc gctgatagcc cataatgctg ggggtggaagg 240
tgaggtgatc gtggataaaa tccggtaacg ctagtgggag ttcggttaca acgcatggc 300
ggacaagcac gagaacctgg tggaggctgg tgtgatcgac cctgtcaaag tgactaggcg 360
cgccctgcac aacgctgtct ccgtggctgg aatggtgctg actaccaag caatcgatgt 420
gga 423

<210> 30208
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-G3

<400> 30208

at tt t t g g t c t g a a c t c g g c a t c a g a t a t t c c a g a g c t g a t t g g t a c c c t a g a g g t c c c t g 60
 a t a t c c c t t t c t c c t g c a t c t c t g t t c t g a a g a g g t a c a g c g a a g g c g a c a t g g c g g g c g t 120
 a c a a g a t g t t t t c a c g g g c a a a g c t g g a t g a t g g t t t g c t g g a t c a g a t c t t c a g g g c t c 180
 g g a t a g a g a c g a t c c g g a t c a a c t g g g c t g c t t a c c c g c a c t a c c a a g c c c c a g a g g a g t 240
 t t g c t c c g a t a g c g t t g g a c c g g a a g c a g c t g t a c t a c g t g a a c a c t t t g a g a g c g c c t 300
 c g a g c g c c a t a g a a a c t g g t g c t g t a g c a g c a g a a a a c g t g g c g c g g c t c a t c a t c t c c a 360
 g g c t c t c t c t a c t a c c g c a g g c a c a g c a g c a g c a g c c t c a t a t c a t c a a g t c a t t c c c c g 420
 a a c a a g g a a t c c 432

<210> 30209
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-G6

<400> 30209

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 t c c t c c a c c a a c c a c g c c a c c a t g c a t c t t a t t c t a t c a a c t c a t t c t t a t t a t c a a c a t 120
 t a c a a t a a t a t t t t c t t c c t a t c a a c a a c a t t c a c a t c t a c t a c c t a c c t t t c t g c t t a 180
 t a t a a t t a c a t t a c c t c t a c t a t c t a c t t a t a a t c t a c c t c c t a t t t t c t t c a a 240
 t a a t t a t c t c t t t t c t t t a c t c t t c t t a t a t t c t a t c t a t c t a t c a c a t t a t a t t a t t a t 300
 t c t c a t t t t a t t t t a t a a t t c t t a a t c a t c t t t c t a a t t c t a c t t t t c t t t c t a t t a a t t 360
 t t a t c a a a c t a t a t t a t t a a t t a a a t t t a t t a a a a a a t a a a a t 405

<210> 30210
 <211> 448

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-053-Q1-K1-G8

 <400> 30210

 gaaatcccca gctgagcctg cccaagcttt ctcattttca agaccgcagc aaactcagga 60
 attataccat tcaaatccca gttcaatctt ctcacatcgc ttgaatgtag gattcagttc 120
 aaagaatgac cgttctactc caatcaacag tcattttgtac tggacaatga ggcagacaag 180
 aactgaatcc tactctgcta gcattaacaa agctcctact gaaaagaagc aagaatctgc 240
 tactttctggc tgcagattgt ttggcattga gataggttct gcagtatcac cagtggctac 300
 tgttgctagt gttggccagg atcagccacc tgctctctca gtagacgttg aatctgatca 360
 gctgtcacag ccatccaatg ccaacaaaac ggatgccccca gtggcaagca gcgagcgctc 420
 tcttaacgag tcagagagcc ggcaagtc 448

<210> 30211
 <211> 272
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-053-Q1-K1-G9

 <400> 30211

 ttctagatcg cgagcgggtct tcctttgttt gttttttttt tttttttttt tttttttttt 60
 ttattaatat taatttttaa aggtaaaata ctattaaaat attgtacaaa tacacaaata 120
 aatgggtaca tatttaatat cgtatcaagt atacggtaaa tttatagggc caataaacca 180
 agcatacaat acaattatgt ttcactaatg aaggaaagca aaagtcgtta ttcaagaact 240
 attcaaacta gggttaacttt agacttggtc aa 272

<210> 30212
 <211> 261
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-053-Q1-K1-H10

 <400> 30212

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cgatgagtat acaaaataac ggagctctac tcgggtagaa acctgatggc ccgcccgttc 120
ccaccactta ttcctttcag ttccacacac tctccattc tacgtctacg cctatacgtt 180
gccttacctc ctgcttcgag ctgctcgcgc taactgcgcg accatcaatg ctcactatgc 240
agtatctacg ttcggtggca t 261

<210> 30213
<211> 430
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-053-Q1-K1-H11
<400> 30213

ctgaacaagg agaagttccg ggcgctcgtc ctcaactccg tcgtgctgct gacgtttctca 60
gccgcgctcg tctgctgaa ccacggctcg gacgagaccg gaagcagcat cccgaagggg 120
aagttcccg cggggttcgc gctcacgctg tcggcgctcg cgctcttctc cctgatectg 180
tccctgacgc agctgacctt cgacgaggtg ctgaagagcg actcgcctca aaccgtgctg 240
gagatgcagt tctggagcaa caccgcggct gcgtgcgtgt ctgtggccgg gctcttcgcc 300
tccggggagt ggcgcaccat cttcggggag atggatgcgt acaagaaggg ggaggtggcg 360
tacgcgatga cgctggcgtc gactggcttc tcgtggcagc tgtgcacgat gggcctcatg 420
gggctggttg 430

<210> 30214
<211> 369
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-053-Q1-K1-F5
<400> 30214

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ttgtttttt tgtattttt tttttttttt tttttttttt tattaaaaa tttaaaatat 120
tttaatttta taaaaatgga aaaaattaaa aatattttt aaaaaggata aaatcaaaaa 180
ggaaaatttt tttaaaaaaa aatcattaaa attttaaact tcttatgtaa ataattttta 240
aatattgact tattaaaaaa cttttttgtc aaaataaaaa aattcacttg aaatgttttt 300

aaataattta aaattataat ttttttataa ggcctattat taacaaaaat taaaaattgt 360
cctttttttt 369

<210> 30215
<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-E10

<400> 30215

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aaaaacaaaa acaacacaac tcatcaacac ggacctataa catatactaa aactcaaaac 120
atacaactaa acacaaaact aactaacata cataacaaca taaaattcac ctccaacaat 180
tacaacccta tcatccctat ccttgcaact cccctactc tccttacta tcaccatcta 240
tctctccctt ttcttccaca ccatcaaacc cacacttaca ctcttttcca tactt 295

<210> 30216
<211> 306
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-E11

<400> 30216

ccaacccttc cggttccctt cctccaacct tgtaaaaccg aaagtttttt cccattcccc 60
taaaaagcca aattcctaga tcccaaactt cccaaaaagc ccttccttat taacggttcc 120
tcccttgtaa tgtaatagtc ctggctctcc aaaagggtcca cctaagtttc ctcaacgatt 180
ccaatcccaa aaattccttc cgccagattt ttaagaaggg cctataacc ccggtttgcc 240
ctggccttcc taaccattgc caccaccat tccaaatttt ataccttctt ttgtttccaa 300
ttcttt 306

<210> 30217
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-E12

<400> 30217

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acgtaatagc gataattctg gtgatcgtag ctccaatgga cgtgaccggc gatcggcctc 120
aggctgggcg cttcctggga ccgagcaagg ccgtgatccg aggcgcaacg ggaagccaaa 180
atcacgggtc atccctatct cctgaagagc atggacggag tagatatata gtagataaat 240
aaacagctgg tttgtactac tatgcaaggt ttaggttcaa gatcgtttca aggaaacgac 300
ctgagggtcca ggtaaccgga gtccgtccag cacatcgctg gctattgtct gattctgtag 360
ctgtacaatg ctctgctacc ttattatccg tgatgtgaaa cattttgtgt cgtccagtc 419

<210> 30218

<211> 214

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-E2

<400> 30218

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ccacgcgtcc tgccacacgt ccgcacacgc gtccgggaac cgcaagcctt ccggttctac 120
atcagatact tgtctagtgc ctacatgcat tccaaatcat atgcaaccac tctgtacata 180
tctgacttat ctcaacttagt atgggactgt gctt 214

<210> 30219

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-E3

<400> 30219

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gaagaagatc gaggacgcca tcgacgcggc catcagctgg ctggacgcca accagctcgc 180
cgaggcggac gagttcgatg acaagatgaa ggagctggag agcctttgca accccatcat 240
cgccaagatg taccagggcg cgggtgccga catgggaggc tccggcggca tggacgagga 300

cgctccggct ggaagcgggtg gccctggccc caagatcgaa gaggtggact aagcgggttg 360
 tgtcagtctc gtgtgtctgc tgcagtggct ggctggccca atcgctgctc gatttatcgt 420
 cgtcttcccg gtgtatccgc gttagaacct t 451

<210> 30220
 <211> 450
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-E4

<400> 30220

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 tgagagctcc tcaagagcaa cctcggaggc ctcgtaggag agctgccccca tcatctagca 180
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 attcaagagc acacgaagca gtcaaccagc ttttccagcc agtaaactctg actcttgagc 300
 agcttgtcag gcataagcta agcgaagggc gaaagtccac atgccgcttg cttggtgtga 360
 ttttagaaga aacagctcca gaggagcttc agaaccatgt cacagtgaag ctttccgtgg 420
 tggaagttct ccttgagatt gcaaaattct 450

<210> 30221
 <211> 298
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-E5

<400> 30221

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 cgcccctatg tcgcccttta acttccagca cgccaaccta accagccaac tgaggaattc 120
 aggaatgaag aagatggagg acaccatcaa cgctggcatc aactggcttg acaccaacca 180
 tcttgccata gcctatgaat tctattacaa gattaaagaa ctttagagcc tttgcaaccc 240
 cattatcgtc aatatttacc aaggctctgt ttcctacatt tgaagcttct tctgcatt 298

<210> 30222
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-E6

<400> 30222

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 gcgtagaact gtatagccct gaatttgtga taccatgccc ttcttgcttg tacctagatc 120
 gcctgcattt cgggtgecta cctccaatcc aatgctttgc caccagtagg gttgtttttg 180
 gtattcccta acttgatcg ttatttcccg tggttttaca agtcgaagaa ctctaggtc 240
 agctgttatt acacctccaa tatatccatg aatacaggaa tgggcaacta gtctgctaaa 300
 aaaaaaaaaa agaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaattataat aaatataata ttatttatat 420
 taatattaat ttttat 436

<210> 30223
 <211> 306
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-E7

<400> 30223

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 actcaatcta cacttcgccc actctgatcc cttaacat cactaaccac ccgactacat 120
 ccatatcctc ctctcctacc aactaacaa tatctaggac accatcgacg cctccatcat 180
 ctactccac tccaaccatc tctcctattc ttactatttc tataacaata ttaatgatct 240
 ctataacctt ttcaacccca ttatatccaa aatttaccaa tgctcttttt cctacatttt 300
 attctc 306

<210> 30224
 <211> 383
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-E8

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 cgccgctagt cctcgcgctg tctgcctcc tctcctcgc ccccgccctc gtcttcgccg 180
 tccccactcc aagaagcctg cgctggggg gccagcagca gcacccgccg gctctgaagc 240
 tcacttcttc tcaggaggcg gcgatcgcg cggcgatgaa catgggcagg ccgactgcta 300
 gggtagccgt tgaggttaac gactaccaac cgtccggccc caacataccg tacgacctat 360
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<210> 30225
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 <212> DNA
 <213> Zea mays
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 catcacgctg gtgttcaccg ccggcgagta caaggggagc accctgtccg tgcagggccc 180
 cctgctcggg ttcacgggca ccatcgagcg cgccgtggtc ggccggcacct gcaagttagc 240
 gctggcgcg gcgtacatgc ttttcaagat gataagcaag ccgacgcctg agacggacgt 300
 caacgagatc aacctgttcg tgctcatgca ccccgctggc aagtactagc gcacacacct 360
 tgagactcga gtgagtggct actaccgat tgttgttggg cagaggttgg gtgaagtgtc 420
 tat 423

<210> 30226
 <211> 291
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-053-Q1-K1-F1

<400> 30226
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<210> 30229
<211> 297
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-F12

<400> 30229

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ctctctataa tctatactac cagtcctctc ctcagttctca tctaactctg tcctccttca 180
caagatgcac gaaatcacia taagcttcgc gttacgtaac ttccaagtgt caagaactcg 240
actaatccaa ctaatcataa tgatccgtta ctatagctct agatatactc tagattt 297

<210> 30230
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-F3

<400> 30230

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gtgcaagaat tcagcatgtc tctttgctgc tttatcattg aacttcccat tcttgtcttg 120
ctgtcacgtc ccctgggggt caatactatg atgcacacag catcctggca gctgcaagaa 180
ttcatcccca gtcgagtcac gaaaatgggt tgcgtgttgg ctatgtcgtg taagcttatt 240
cagttattct tgggtggttg ggtcgggtatc gtgtcattcc ccgttttaggt agctctgtaa 300
tctactattc tcatgtgtgt tgccttccaa tcagtaatag taatcagcaa ttgtctgcca 360
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaataaaa aaataattaa aaaaaaaaaa 420
ggggcggc 428

<210> 30231
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-D8

<400> 30231

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ggctgcggcg atggaccaag aaacctcacg ggaacccac tccttgagga gccgtccagt 120

gccgcattag tgggttccat tcttctttgg atcgtctgctc gcgatcgcat tgcccgcgtt 180

tcttttggcc gtcttggttc gttcttgatt cttggacgag gtgggatttg gagagccgag 240

agcggcgcgg cagcggcggg tttctcggtc gggctagatt gtttccatcg agatgggtggg 300

cggctgaagg cattcgctga tggaccacac ttgcgcaaaa gacctcgagc gcggcgagct 360

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ct 422

<210> 30232

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-C3

<400> 30232

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ctgctacgtg ggcaatggcg cctcccgaca ctgtcgcccc atcatgcttc tcttctcctg 120

tgcttacacg gtctccatga ctgcatagca cttctgtatc aactgggcaa cctgacgttg 180

tcgctgaacc taactcgata tgcaaacttc aggctcatct cctcattgcc agcaggcact 240

ctcttaagcg tttccttgcg aaacgcctcg tccggatctt caggcaagac tccatacgca 300

gcgctaagtc attcgatggc atggagtcac cgatgattga cgtgacatgc tta 353

<210> 30233

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-C4

<400> 30233

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gcgaccgccg cggcctcggc cgccgccgcc aaggagcgga aggaggtgca gcggcggaag 120

cagcgcgacg aggaaggcct tcacctgctg acgctgctgc tgcagtgcgc ggaggccgtg 180
 aacgcggaca acctcgacga cgcgcaccaa acgctgcttg agatcgccga gctggccacg 240
 ccgttcggca cctcgaccca acgcgtggcc ggctacttcg cggaggccat gtcggctcg 299

<210> 30234
 <211> 303
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-C5

<400> 30234

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 accgcagacg gcgtcctaata cggcctctgc tgctgctccg tttccgaggc cgacagcaac 180
 agcaccaaca cgaggcacgc gtcgatagcc caccggcctgt ccttggacta tctacaaacg 240
 gatctggctc atggccgagt gcggcacgcg gatgttcgag caagacaccc tgcgcatgga 300
 cac 303

<210> 30235
 <211> 483
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-C7

<400> 30235

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 ttgcgctgca agaggcagca taattccact tgatagaact gtttgaaatg gcgaatctgt 180
 gtgccatcca tgccaagcgt gtcacaatca tgcaaaatga catacaactt gcaaggcgta 240
 tcggaggaag gcgttgggca tgatatataa tatccattct gattgcatca ttcttgtgaa 300
 tttgtttgta tgagctagac attagtgttg ttgaatgctg catgggttcct aatccttttc 360
 gcagtctaac atctgtggag ttagtatggt acatggcaac agctgaacat ctgtggacta 420
 taactatatg gcaacatccg aagattgtgt ctgtgggata actggttgtt ttggttgctc 480

ttc

483

<210> 30236
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-C8

<400> 30236

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gaaggctcca tgattgtagt gctggccagc agcgtaaatt gtgaattctg ctttttttta 120
tacgtggtgt ttattgtttt agagtaaatt atcatttggt tgaggtaact attcacacga 180
actatatggc aatgctgtta ttatatacga aagactgata cattcttcgg attgtgagca 240
aacagtcaga aactgtaat ctcttaggac aactatataa ggcagctgtt gtatcaaaaa 300
caaaaaaaaa aggatttata ataaaa 326

<210> 30237
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-C9

<400> 30237

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ctgttgcatg agtacagaaa gtcattggct tcgagaggta gcgtggtcag ccccaaaaaga 120
tttgtgatga caactcaaat atgagcttca acatgctctc ctgaagctcg aagcatcaaa 180
aggcttcaac aacacagtaa aagggtggaaa tgcaaatttt ttctttggag agagactaac 240
tactggtatt gagttcttca tgtgcgaata gattgcaatt tataacagtt tattgcttac 300
tggttagca tcgtctaate agatctggct tcaagttact tagaagtctt acagatcaca 360
gtgtccagtg attgtacaac ctttttcttt ttaatccctg ttcgatttgt ttc 413

<210> 30238
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-D1

<400> 30238

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cagatcactc aatcaactga ctatgcatat ctctgtgagcc atcaaccatt tctctcaacc 180
atgaacctag ttctgaatcc tgatagtctg atctagaagc gtttaaatac catcctattg 240
tctctcaact ttcatttcaa tcaattcaat gtatttgtca aggatcagct ttcgctttat 300
gttgattatt attattgcaa tgctccaatc acgaccttca tcctctatcc attttatcca 360
cattatca 368

<210> 30239

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-D10

<400> 30239

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ccggcgcttc tgatgctttc cgccgtgcga tgtggtgccc ttcgccggtg gcgcccgccg 120
ccgcacctcc tcccacgcat cctttctctc tccttttgta catctcccgc gcgaccacag 180
gtggggggcg tgctggagct cccggagggtg gagaaggtac tgcgcgacgt acgagcgggt 240
gacgtgcgcg tattccccgt cggcgagagc ggtctgcacg gcggggcctg cgccgactac 300
atggtcgtcg ccacaggccg ctccgattgg caggtccgta acatcgcgca tgcgtcctc 360
tacaagataa agcataagca gaagggctct gatagaatat tgatgccaag tgtagaatgt 420
cagcaagccg ggaaaatggg gtggca 446

<210> 30240

<211> 57

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-D11

<400> 30240

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<210> 30241
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-D2

<400> 30241

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gccttcgggc ctgccgctgg gtaggcattct cgcggagaag aagactaacg gcacgaaagc 120
tgtccagggc gaaaaatgcg atggcgagtg cctcgtcaaa tctagtctcc tcgaaggaac 180
tttcgttggg atagtgttct tcatcattct gatattcagga ctcatgtgca tgatggggat 240
cgatactccc tcgaggtttg aagctcccca ggagtcttga tctctccctt ggactgcaga 300
atccgcgggg ggggttgtag gagggcacgc ggcggcggtt agggggggccg gtgttctgtt 360
ggctctgact gtggatatat atccgttagc tttccatttg gaaggtagga cgccttgtgt 420
atTTTTTTgt accgagccaa 440

<210> 30242
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-D3

<400> 30242

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cgtgtcatcg agcacttgac acatacgac cgcacgaaga tgactactct gctcactacg 120
accaaggcac tacctgaagc tttcagaatc tgtgatattc atcaagccat aaagtggagag 180
agaacgaacc ataattagtgt gctgggtatgc cgtccgcaa cccgcctaga tatcttcgct 240
tgtctgtctt caaccttgaa tgaaaatctg atgaactctg ctgaaaatat cgtctgtatg 300
ttgacatgga tcatgattct atgggtatcta tctataatat ctgtctcata agctttgata 360
tgaagcgtga tctgggttc 378

<210> 30243
 <211> 312
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-053-Q1-K1-D4

 <400> 30243

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 acctaagtgg tcatgccttc ctatTTTTTgg ctgacatgtg agtttttagat atctctctca 120
 ttattcaac gggagtactt gaaaacatat ccacatgcta gtatattgat gatgcaaaac 180
 catggaccag cagtgtgatg ttgcatttcc ttgtgcatca cataatgaga ttgacaaggg 240
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 taagctttga tt 312

<210> 30244
 <211> 331
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-053-Q1-K1-D5

 <400> 30244

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 tgctatggag cacctcaagc gcctcgccag catcgacctc accatcctct ccgcccagat 120
 cacccaatca acggacttcc cgaacctggt aaccaaccac cattgctttc aaccattaac 180
 ctagtggatga aacccgatat gctgttcttg aagcctgcga agagcagcct ttttggcttt 240
 caacttgata ttaattcaat ccaaggattt ttcaaggaac cgctttgggt ttaagttgag 300
 attggttgct tcaaagctcc aatcacgacc t 331

<210> 30245
 <211> 299
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-053-Q1-K1-D6

 <400> 30245

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tctgcaggag ccaagaacat gtgctccctt tttgaccctg gttagagaaa ggaaagtctt 180
gtagcctctt ggtaggctgg ggtggtggtg tgtcgtgtgg ctggtacgtg ttagcgtgtg 240
tgtgttctat tcgtctgtgt atgtttgcaa gtttttcttg aatcttttta tcttttttt 299

<210> 30246
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-D7

<400> 30246

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ccgaggccca cctgaagctt tcagaattgg gatttgctga ggcgtaaagt gagagagaac 180
gaaccagaag agtgtggtgg ttgtcgtcgg ccggcaggcc ttgtgttttt gttgtctgct 240
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ttcatttttc tattttatgt atctataata tctgtcggag aagctttgat atgaagcggg 360
atctggttcg gaacaaataa aattgaatta tatttattat tattatttaa ttatttttat 420
ttattttata ttattttatt ttttt 445

<210> 30247
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-C10

<400> 30247

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taaataaaaa aacaaaaaaaa aaaaacaaaa agaaagaata caaaaaaaaa caagacaaac 120
aaaaccaaca aaaaaaaaaac aaaaaaaaaaa aaaacaaaac aacacaaaac ttaacaaaca 180
acacactcac aacaaccacg aaaactcaaa actcttcaac aacacacaaa aaaacaaaaa 240
taccaaattt ctctatgacc acacactaac taatgatatc caactctcca ccaccgccaa 300

taatgcaacc cacaac

316

<210> 30248
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-A6

<400> 30248

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gcgggctgaa gacgaagagc actcgagcga ctttgaaccg gaagaaaacg gtgaggggtgc 120
cgacgatgag gagatcgatg aagaggacga tgacggtgag gactctgtga aggcgcagac 180
ctctacgaag aggaagaggt caggcgacga agaagaagaa gacgacgacg atggggatga 240
tgatggtgac gatgatgacg atgggaggcc accatcaaag cgatagtatg gttagctcta 300
gtttttagc tgtgtccttg ggtgtttggt aggtaggtag tgctgctgat gttggtttag 360
aagaactcat catcacctgg gatatgtgtg tgatttggct tggccgatgg atgaatgatg 420
aaggtcttgt actaaaaaaaa aaataaataa aa 452

<210> 30249
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-A7

<400> 30249

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ttctgtggga agtttctgtg gaagaggaaa gcagttggaa tttgggggtg caaggactgt 180
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ggtttcctgt aattgctctt gtcaggcatg ttgtgggggc cttctctagt ggaaatgtgg 360
aatcactgta ctggctgttt tgccgagaca atgctcctta tatttggttt at 412

<210> 30250
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-A8

<400> 30250

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 tgcctagtct cctagaggaa gggctcttctt cggttgtcaa gaggaacatc ctgaaacaga 180
 agcaggaaaag tgatgcaaag aacggtagtg gatgctgtca atagatgtat gtgctgatcc 240
 acaccacacg gttggctttc ttcgtgtgag ctgccctgat tgtctgctgt acatgttctt 300
 gtgagtaaga agggcgagca taattgattt gtacaaagga catgtcagtt tgggtgtcata 360
 gttttcctca tctccagttt agtatagcaa ttttgttgtc gccctatcaa aaaaaaaaaat 420
 attatttttt tt 432

<210> 30251
 <211> 356
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-A9

<400> 30251

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 ttcactgtaa tgtgaccagg acctgactcc ctgtgctgtg ctgtgctgtg cttcccgcgt 180
 aataacggtg tactagttac cttctttgca gaaaatgctt tctaggaatg agagcggaaa 240
 tatttctacc atttatttaa ggtcctgttt ggaaacaacc caacagtttt taagacacca 300
 gtttttatct tttagctttg agagaccaac ttcttgtttt tatgaaagtg ggaatc 356

<210> 30252
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-B1

<400> 30252

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tgtgggaagt ttgctgtgaa gaggaaagca gttggaattt ggggggtgcaa ggactgtggg 180

aaggtgaagg ctggtggtgc ttacaccatg aacactgcta gtgcgggtcac cgtcaggagc 240

acgatccgcc gcctgaggga gcagactgaa gcatgatata gctctttata ttattgggggt 300

ttcctgtagt tgctcttgtc aagcatgttg tgggggcctt ctctagtgga aatgtggaat 360

cactgtactg gctgttttgc ccagacaatg ctctttatat ttggtttatg ctct 414

<210> 30253

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-B10

<400> 30253

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aggcaggcta atgttacaaa ggtgaatatt tttcttgaat acatgtgcat tttcatgtct 120

ttaactctag atagatgctt gttgatgtgg taaagctgtt gatccttata ttgctgatta 180

ttatcaaaat ttactcatga ccagtcata ctccatagca ggtatctttc ataaaagggt 240

tgctcttttg ttccattgga gaagtactaa aatgcacagg tatctaccgt gttccatctg 300

ccaagacacc aacgttcaac acaagcagca gttcagatag accaccatca tcacaattgc 360

tcacaggatc atgtcagttc ttacatccac atgggtgttc ttcttgataa cggttagtgc 420

ctaccatgga cagcggctag tacttgc 447

<210> 30254

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-B11

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tcgtgtgttc gagttccagg agctcccgaa acctgaggtg ccgcacccag tgccggagct 120
gaccaagccc gaggtgccac ctcacccgac agccgtccct aatctcccg aacctgaggt 180
gcctcatcca gtgccggatc tgctcaagcc cgagctgaca cctcaccg cggccgtgcc 240
cgagctgccg aagcctgagg tgccgcaccc aatgccagag ctgccaagc ccgaagtgcc 300
acctcaccg acagccgtcc cggatc 326

<210> 30255
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-B12

<400> 30255

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aactttagt acgaccgtat ttattaatta ctagaagacg tttatagagc ttacgatgta 300
cggcgagggtg atgacatggt ggcatagcgt agtgtaattt ttttttggcg ttcgtctcgg 360
ccaaaacata gcatacatag tccttggtt 389

<210> 30256
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-B2

<400> 30256

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gttcaagatc ttctgccgcy ccaacgagaa ctactgcctg gccgtccgcy acggcgccgt 180
cgtgctggcc ccggtcaacc ccaaggacga ccaccagcac tggtaacaagg acatgcgctt 240
cagcaccggt gtcaaggacg aggaaggcat gccggcgctt gcgctcgtca acaaggccac 300

ggtgctcgca atcaagcact ccctcggcca gtcccacccg gtcaagctcg cgcctttcag 360
cccggaccag gaagacgcgt cgggtgctgtg gacggagagc aaggacgtgg gcaagggctt 420
ccgctgcatc cgcattggta acaacacc 448

<210> 30257
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-B3

<400> 30257

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agttgcgtgg ggaccagct agcagcagca ctcttgctgc cagcgtaaatt gtgtcagtca 120
cacacagcct cagtgtccct aacaaccagc gtgggcagaa accactggca atgcgtatcc 180
cgatgtctta caaagtgaat ggagaagaca ggctggagca agggcacatc agcaactgtc 240
cttctgggtt gtagtgccac ctgtgtctat tgagttgaga gtgctcgatc agcgtgctac 300
aagcatagcg tgtgtgttct agatctcgaa catttgacagc tgtgcgtgcg cgctaattggg 360
ttgtgtacac tggtaattgg tttaggtcgc ccattctctt ttata 405

<210> 30258
<211> 130
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-B4

<400> 30258

tcccacgcgt ccggagctag cagctcgctc tgtcctgcaa caatggccgc tctggcctcc 60
tggcagcatc tggtcgcggc ggcggctctg gcaacggctc tgctgctgct ggcagctggg 120
gccgggaccg 130

<210> 30259
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-B5

<400> 30259

ctacccacgc ctaccgacgc agtcgcacta cgcacatgc aattccttcc gtaattgcta 60

ccagatatcg ggctcgcagg cgttatgaga tcaatatcac tgctgtatat gaccattcca 120

tgtacaccag ccagttctgc atgaagttag ctgctctaac gaccgctata tgcagtttct 180

gctgcaaagc ctaatccaaa gcacaggctg cgtgtgctta caccatgaac actgctagtg 240

cggtcaccgt caggagcacg atccgctgctc tgaggagca gactgaagca tgatatact 300

ctttatatta ttgggggtttc ctgtagttgc tcttgtcagg ca 342

<210> 30260

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-B6

<400> 30260

cccacgcgtc cgcgcagaag aaaccccaga gtactctgat cataggaaga aattctggtc 60

tgctgtcaag cctgcccatt ttggcgtgaa gatcgctcc agatccctgc tgatccttgt 120

gcgcttcac ttcaccggaa tcttcacg cctgctcgcc aacttctcct tcggcaggtc 180

cctcctgctg aagtaccctg agtttttctc cgctgggctg ttcagcagag ccggcccgac 240

cgaggaagag gtgaagagcg cctcggtcaa gatgtggtt gtcggtcacg gctacagcaa 300

cgtggatagc tcgttgagc tcggaagaag caagccggac aaggaggtga tcaccaaggt 360

ttcgggaccc gaggtcggtt acgtcacaac tccgatcggg ctgtgtcagt gcgctcttgt 420

cctgctgagc cagcgtgcca acctg 445

<210> 30261

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-B7

<400> 30261

cccacgcgtc cggctacctc ggcttccaaa ccatggccgc ctatcctaca tgtggtgcct 60

gcggagccgc ttaggccagc cggctgggccc agaggcatat ccttgctggt gatgatctat 120

ctgggtcgcg gaggggtcga aagggaacgct tgactattgt cagcgcggga cgcaatgctt 180
tcagctgtga aattattatt caggcttgaa ctaaaggtac tgtacgaagg tcctacagta 240
atattattga atcagagaga actgagttta gagggcaaga ggaacaagaa ctgagtttag 300
ggtgaaagag gatgattaca aacaaatgaa cgtgagagtg agcag 345

<210> 30262
<211> 466
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-B9

<400> 30262

gcccattgcca tcaagtggcc cagtaactgg tccaactaca aacctgaata ttgggatgga 60
ctattgggcc aacacagcaa gctctgctcc tgtaattcat ggcaaagtga cccaacaac 120
agttccaggg gctgtggtcc cagcagagca atggatacag gatgaacgtg aactcaaaag 180
gcaaaaaaga aaacagtcta atagggagtc tgcacgcaga tctaggttgc gtaaacaggc 240
tgaatgtgag gagttggctc aacgtgctga tgttttaag caggaaaatg cttcacttag 300
agatgaagta aaccgtatca gaaaagagta tgaggaactt ctatcaaaga ataattcact 360
aaaggaaaaa cttgaaagca aacaacacaa aactgatgaa gcaggactta acaacaagct 420
gcaacattct ggcaatgaca tccagaaaaa aggaaactaa tcgagc 466

<210> 30263
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-C1

<400> 30263

ctcaaagttg gttcacgcca aggaacttct tatggaatac gtggataggg aaaagaagaa 60
tgctgaatag agatcggaag cccccaacc gaacgaagct ttcacataat tcgatggata 120
cctttattcc acaaggcatt ataatacagc ctttgcagag gagagtttcc caggataaca 180
gaattaacag taacatctgg accgtgttga taaaccacca aatgttcccc tatcatcaca 240
gacgtctttg gctgctcgtc gtgtgatgta tcattctgcc gtacaaaagg atccagatca 300

ttcttactac tggacagata tttgtatfff ctcatatgtc ttgaaatcaa atttatacat 360
 tttctgtgtc tatgggtc 378

<210> 30264
 <211> 142
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-A5

<400> 30264

cccactcgta cccacgcgtc cggagagacc agaaacacct gactatggct catcttttcg 60
 acaagccatc cttccggaga ccggttactc ttgataaaga ctacatctca atctcgcatg 120
 tcaacacaca tctgcccac c 142

<210> 30265
 <211> 314
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-G7

<400> 30265

cggacgcgtg ggcggacgcg tgggcggacg cgtgggcgga cgcgtgggga agatcacgag 60
 aaggatgtcc tattagttag tgatgaccca tgggaggact tegtgaactg cgtgcgggtgc 120
 atcaggattc tttcgccgca ggaagagagg caaatgaggc tggccagcga ctacggagac 180
 agctttgttg gcaaccaagc gtgcagcagc tcggacggag gtcgcccgtg gagtggcacc 240
 ggcgactaga aatagcaggc gatgtctgag cacaaatgtt tgggtataatc cgtccaacga 300
 ttgcaagaaa atga 314

<210> 30266
 <211> 455
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-G9

<400> 30266

cgcagaagcc agaaccctc gtctcccggc gcctgttccc cgcgcgcacc gcggctacac 60

atgccctctc cccatcccat ttcccagatc ccaccaacgc agcgcagggga tcgagtagcc 120
caccacccca ccccgcgacg ctaaccgacg caatggcgac gctcacggtt ccttctctccg 180
tcccggccgt cgccgaggac tgcgagcagc tccacaaggc ttctgaaggt tggggcacca 240
acgagaagct gatcatctcc atcctggccc accgcaacgc cgcgcagcgc cgcgcgatcc 300
gccgcggcta cgccgaggcg tacgggaagg agctgctccg cgctctcggc gacgagatcc 360
acggcaagtt cgagagggcg gtgatcctgt ggacgctgga ccccgcgag agggacgcgg 420
tgctggcgaa cgaggaggcg aagaagagcc acccc 455

<210> 30267
<211> 231
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-H1

<400> 30267

gcctgcaggg cgatcacgtt gctgaacaga agttcggtag cggtggctat ggaagtggcg 60
gtgggtgctg aggctacggc ggcgggtggag gaagaggtgg tggtaggtat ggcggtagcg 120
gcagctgctg cggcgggtggg tacggaggcg gtggcggcta cacaccggc tactctggca 180
ccggcacctg cgactactgg aagagccacc cggacgcat catctcgtgc a 231

<210> 30268
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-H10

<400> 30268

agacaatcaa tcatgggtca cccgcgcagt gtcgctgccg ctgccccct cctcctgctg 60
cgtcgtccgc cgccgccgcc ggcgcagcgg ggctcgtgtc cgccgcgtcg ccggcagcca 120
gcgacttcgt ccgcaagtcg tgccgcacga cgcagtaccc gtcggtgtgc gagcagagcc 180
tggcgtcgta cggcgggtcg ccgccgccgc ggagcccgcg ggagctggcg cgcgccgcgc 240
tgtcggtag cgccgaccgc gcgcgcgcct gatctgcata cgtgggtccgc ctgtgcta 300
ccatctgcgg catatgctcg aagaaagttt ttgggaacg 339

<210> 30269
 <211> 611
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-052-Q1-K1-H12

 <400> 30269

 cccacgcgtc cgccacgcg tccgacacag acaagtgggt tccaaagcca agtgtgtgta 60
 ctagcaacca gctagctcgg gcggcagcag gcagccatca tgtcggagga gaagcaccac 120
 cacttcttca accaccacaa gaaggacgag gagcagcccg ccggcgagta cgggtactcc 180
 gagaccgagg tggtcaccgc caccggcgag ggcgagtagc agaggtacaa gaaggaggag 240
 aaggagcaca agcacaagca gcacctcggc gaggccggcg ccatcgccgc cggcgccttc 300
 gcactctacg agaagcacga ggcgagaag gaccccgagc acgcgcacag gcacaagatc 360
 acggaggagg tcgctgccgc ggcgcccgtc ggcgcggcg gctacgtatt ccacgagcac 420
 cacgagaaga agaaggacca caaggacgcc gaggaggcca gcggcgagaa gaagcaccac 480
 cacctcttcg gctgaccgta gtaccggccg gcgcgcgacc gagctagcta gtcgccggcg 540
 acacaaccac acacctgttt aattctgtac tgcattgctg tgtaatttga tggttcacia 600
 taatgagtcc c 611

<210> 30270
 <211> 229
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-052-Q1-K1-H2

 <400> 30270

 agagaattga caaacctagt aattttctgc atgttcttgt tcttagctat tgactagggc 60
 tagggacagt caaagaactt ggtaacatta tgtgttaatc cagatctaac taaatccact 120
 cagaacctgg tgaacattaa acatgggaat tctatacatc agcaaacaag gttaactagt 180
 aagtgatagc atgcaaccaa acagttatgc tccaataat acaaattgt 229

<210> 30271
 <211> 352

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-H3

<400> 30271

cccacgcgtc cgccacgcg tccgccacg cgtccgccca cgcgtccgat tatecttatg 60
 ctttggctct tcaattgctt tggcatcaag tggcattgtg ccagcattta cggaggatgt 120
 cgctcgatct gtaaactgtg tacatgtcgt cgataccaca ggagtacatg gcgggcatat 180
 agaaccagta tcctatatct ctttgttttc caatacacct ggaaagctga cgaatgaatt 240
 agtggacctt ggaagcgaag aattttcttg cggaaggaac atgactactg acttggtaac 300
 atttacagtg aagtatggct gttggagtta caaagagagc agtaccggat tg 352

<210> 30272
 <211> 221
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-H4

<400> 30272

accacgcgtc cgccacgcg tccgccacg cgtccgacca cgcgtccgaa aaaaaaaga 60
 aaaaaggaaa aaaataaaaa aaaaaataaa aaaaaaaaaa aaaaaaata aaaaaaaga 120
 taaaaatata tctaaaaaac attatacata taataaatac cacaagtaat acataaataa 180
 catataaaac taagtataat atatctatct gttttccaat a 221

<210> 30273
 <211> 201
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-H5

<400> 30273

cccactcgtc cgcggacgcg tgggaaatta caaaaaaaaa aaaaaaaaaa aaaaaaagg 60
 aaaaaataaa catataagta aaaaataaaa aataaaaaaaaa ataaaaataa aatttggccg 120
 tcctttttta cgtttccaat tttccttccc ttttcttcta tttttttttt tttttttttg 180
 tcccccttaa tttaaatttt t 201

<210> 30274
<211> 358
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-052-Q1-K1-H6

<400> 30274

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aagaagcggc agcgagcgag gatgccgtgc ctgaacgtgt cgaccaacgt gaacctggag 120
ggggtggaca cctncgccat cctcgccgaa gcctccaagt ccgtcgccaa catcatcggc 180
aagccccgagg cctacgtgat ggttggttctc aagggttcgg tgcctatggc atttggaggt 240
accagaggac cagcagctta cggtgagctg gtttccatcg gaggcctgaa ccctgatgtg 300
aacaagaagc ttagtgctgg catcgcttct atcctggagt caaagctgtc tgttccca 358

<210> 30275
<211> 313
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-H7

<400> 30275

ataatgctgg agtcggaatg cagatttaag agaatcagga agccccctta tgtaaacagg 60
tgatcaact tgaggggtacc gttccaggaa gtgtacgggg acgtccgctg caacctgaag 120
gaggcagtcc agctggccgg gctcacatgg gaggggcgcg ctactgcgg gctcgacgac 180
gcccgaaca ccgctcgctt tctggcactt ctgatgcacc ggggctataa gttctgcatc 240
accaactcac tgggtgtggca acctgccgac gtcgccgagt caaccgtcgg cacctgtcac 300
ttcttcccgg acc 313

<210> 30276
<211> 243
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-H8

<400> 30276

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agggtaccgt tccaggaagt gtacggtgac gtccgctgca acctgtagga ggcagtccat 120
ctggccgggc tcacatggga gggacgcgct cactgcggtc tcgacgactc ccgtaacacc 180
attcgtctac tggcacttct gatgcaccgg ttcttcaatt tttctatcac caactcactg 240
gtg 243

<210> 30277

<211> 178

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-H9

<400> 30277

ctgggaagcc cgccgcgagt acggaatgcc aagccagtag tagtttttgt tctcggcagc 60
aagccatttg atgttcgttt tgtgcgacgg tttgcccgtt gatcgcgatt ggccctcgtag 120
cctttttgac cgaacgagag aagcagcagc tctgcaaagc tacctccagg ttcattcg 178

<210> 30278

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-A1

<400> 30278

ggcggattcc tgctacctcg accgtccccg ttcccgtccc cttccggcgc gcgagctcgc 60
gcgagattgc aaacgctaga tcgggtgtcg ctgtgaatga cgagtgcatt ctcaagttcg 120
gcgagctgca gtcgaagagg ctgcaccgct tctaacttt caagatggac gacaagttca 180
aggagatcgt tgtggaccaa gtcggggatc gcgctaccag ctacgaggac ttcacaaaca 240
gccttcccga gaatgactgc cgatacgcga tctatgattt cgactttgtc actgcagaag 300
atgtccagaa gagcatgac ttctata 327

<210> 30279

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-A10

<400> 30279

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acactgtgca tagtttgaag gaagagtatg agaaaaaacg tgctgaggag gagaaggcta 120

aggaagagcg tgatgcaatg gttcaggcaa agaggagca ccgggagaag tctgaggcga 180

agcggaaaga actgaggagg aagatgttca agaagacaag atctggccaa cctgtgatga 240

gataccggat cgagcatctc ttggagactg cactgagcaa gtaacacgat accaacctcg 300

ccttttgaga ccaaagtgtg ctaccaaatt ttgtagctcc gtgcaaccat ttgtttactg 360

taaccgtctt ttgtcgcttc atcgttgtac 390

<210> 30280

<211> 242

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-A12

<400> 30280

ttcccgttct tcccactctc totccactcg tatctacact cctacagtta cgattcctta 60

taccatttat catcacacaa tctggattag cttttcttcc attacgatta tactcatttt 120

catgacttca tttcttgcac cttccaatcc aatttcaaga tgctataact ctcttaacat 180

cacttctcat attctataat catttatctc gagtcaacaa ttaagaactg caatagtttt 240

ta 242

<210> 30281

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-A2

<400> 30281

cccacgcgtc cgcccacgcg tccgcactcg tagagagaag gaaaaatata cccggaccct 60

agctcccgat ctcgatggcg aaccctcgcg tcttcttcga catgaccgtc ggcggcgccc 120

cggcgggccg gatcgtgatg gagctgtacg ccaacgaggt gcccaagacc gcggagaact 180
 tccgcgcgct gtgcacgggc gagaagggcg tgggcaagtc cgggaagccg ctccactaca 240
 agggctccac cttccaccgc gtcacccccg agttcatgtg ccagggcggc gacttcaccc 300
 gcggcaacgg caccggcggc gagtccatct acggcgagaa gttccccgac gagaagttcg 360
 tgcgcaagca caccgcccc ggtgtgctct ccatggccaa cgccggggccc aacaccaacg 420
 gctcccagtt cttcatctgc accgtcgcga c 451

<210> 30282
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-A4

<400> 30282
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 gggaatctcc acattggggg aacaccttta ttgaagcatt ttatcagctt cttttacacc 120
 aatagcttgt acattaaatt gtaaaactta acacatacaa caaagcaact taaaaactca 180
 attcgttttg aactgacac cgcccggtcc aacaatgatc acttaactct ccatgttcaa 240
 aaacaacca ttgtcaacaa ctcttccaa agcttcaatt tctgtcctg cttccaactc 300
 attcttgatt ggctttttga attataaatt gaccatgtaa tttgagtttt caaaaacata 360
 tggcttgtct cctttaaac ttattttttt cttgacttct ttcttcttaa 410

<210> 30283
 <211> 286
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-G6

<400> 30283
 aaaaaagcta gctaaaacac aaaacaaaac aaaacaaaca acacaagata tcgagcaaaa 60
 aggcataata ttggatcttg agtgcaacaa agtgctacaa gaagatcagg aaggctctct 120
 gcaaggtcca agacaagggtg agcatcaaga ccatctccta ctactagaag aacaacacgg 180
 tgacagtgtc cgggcccttc gactcctagg aggtcgccta caggctcacc ttctattcta 240

tcaaggtcat caccgacata cacatctttt ttgtgcttat gcttca

286

<210> 30284

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-F2

<400> 30284

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tgatggaaat gcatatcatg gtgaatctgc acccaacaag aaagatgcag agcagaatgc 120

agctcgtggt gtgatcaagt cgatttttagc taagcatgac acttgtagtg tgagaattgt 180

tagatcgaag aaacaactta taactgctgt cagatcttct ggaaacaccc cagctacttt 240

tactcctata cagtttacac ggccgtgttc atatgcagca tatggcagac cagatgatac 300

aacacctggt ttgccaaatg aatcttctc attagctggt caacgaggca tcaatgttgt 360

acctgcagtt gggaca 376

<210> 30285

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-F4

<400> 30285

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ggcagtatac ctccagaaag acaaaaaagt gttcaacctg agcagggttct ctgcagagca 120

gtttgctgca tatgctgctt cgcttggtct gcctgttacc cccaagatcc gcttcataag 180

ccacaagaag aatgtgtcga agaaggatat ggaggacatt gatatgaaac agatgaaatc 240

cagtttgga catgaagtta ccatcactcc aaagatcaac attgatttaa ctttgtgtga 300

tggagatgat gatatccttt atcccaagaa gccactgca gatgctaata tggatgacag 360

acttgatgat 370

<210> 30286

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-F5

<400> 30286

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attggagctc tcgaagaact tgatgttgaa gatgaagata tttatgcac aggttttgc 120

tatgaacaaa ctgaagttga tattgagcct tcaaaaactg ccaatgacag taattataaa 180

cttgatgaca gaaaaagagg tttctatctg agctttaaga ttgcctcaa ttctgaatac 240

aaacttgaac ggtaatgctt cctctgatc atacttttct tcactctgat ggaatagtgt 300

gaactacctt cgaaagtctg ggctttgggt tttcattcta ctttct 346

<210> 30287

<211> 308

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-052-Q1-K1-F6

<400> 30287

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ccgccgttta ggggcaagac caagtccaag atcttcgact gcatcacgtc catggagctg 120

cagttccctt ctgacccatg ggacaggggt tctgattccg ccaaggagct cgtcaccggg 180

atgctgcggc gcgaccctag gctgcagctc acggccaagc aggtttttaga gtatccgtgg 240

atgcaggaac acgcggaccc acaagactcg agcggtcagt gccactagac cggcctncaa 300

cgggaggg 308

<210> 30288

<211> 233

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-F7

<400> 30288

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gcttaagttt tctgcgctag cccctgcagc cgaagtgttt ctgatggttc aaatagcgtt 120

gcagtgcctt gttggtgtta gtccttgttt atcttacatt tgtgagtga gttggacgtg 180
ccaaacatat ttaaataatat cctcttgaac gggggaaaga tcatatcaag tcc 233

<210> 30289
<211> 89
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-F8

<400> 30289

tcgcccacgc gtaccgcca cgccgtccgc ccacgcgtcc gccacgcgt ccgccgacgc 60
gtgcgcccac gcgtccgccc acgcgtccg 89

<210> 30290
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-G1

<400> 30290

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acaattgctc ctttgataa ttagaccttg ggatcccga ctgcattaca tggcatgtgg 120
ttgcttgggg acaagcaaca tttcgacggg gcggtaatgt aacatccga ttctgtgata 180
tgtgtggtct gcctgaactc tgaagacggg gtgcaagtat aggtaaatga agtctgaact 240
tctgaagatt ttgatgagca agctgattgg gccatattag ttgtgggccg gaataccggg 300
gtgtattcat ataagtacta agaccatgta ctgcaacagc agaaaggaaa tattctagac 360
tttggttacc aaacaaagca tcttaagttg ctttttgggg 400

<210> 30291
<211> 626
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-G10

<400> 30291

cccacgcgtc cgcggacgcg tgggcgccat cgaccatctg gtgcgcggga agacgcggaa 60

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-052-Q1-K1-G12
 <400> 30293

caagttgtca agcaataaga cagtgaggag ggtccgtgtt cgtggaggta atgtgaaatg 60
 gagggtctctt cgccttgata ctggtaacta ctcatgggga agtgaagctg ttacccgcaa 120
 gacccgtatc ctcgacgtgg tctacaatgc atcaaacaat gagcttgtga ggacacaaac 180
 ccttgtgaag agtgccattg tgcaagttga tgctgcccc ttcaagcagt ggtacctcac 240
 tcactatgga gttgacattg gtaggaagaa gaaaaccct gctgcaaaga aggataatgc 300
 tgagggacaa gaggttgagg cagcagctga ggaaacgaaa aagagcaacc atgtcacgag 360
 gaagcttgag aagcgcaagg agggacgtac ccttgacca cacattgagg agcaatttgg 420
 cagtggacgg ttgctggcat gcatttcttc ccgccctgga cagtgtggcc gagctgatgg 480
 gtacatcctt gagggtaaag agcttgagtt ctacatgaag aagctacaga ggaagaaggg 540
 caagagcgct gtaacttaga gcatttctcat ggattgtctt gcaccgaaat gtgtgtcctg 600
 atgagtacac 610

<210> 30294
 <211> 369
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-052-Q1-K1-G2
 <400> 30294

cccacgcgtc cggagaaaaat tacgaggaca acaatggta catgcctccg agttatgaga 60
 gaaggaacat cctctggagg aggattgaga atgaaactca aacagtttca caaaagcaca 120
 acatcattca ctgcccttga caagaactat ctactccat tttttaccag tcagacagat 180
 gatgataacg atgacgactt cagtcagcaa ccccaaaacc gaagactagc tttttatgat 240
 caatagcgga atttgatact ctacatatca agctaaatac acggagcaga actgacgtgc 300
 atgactatgt ctatgtgtga ttgggtcgaa caaatatag caagagcata cttagttgag 360
 ttgcatatg 369

<210> 30295
 <211> 300
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-052-Q1-K1-G3

 <400> 30295

 cccacgcgtc cgcggaacgcg tggggaactt cctgggatta atacattttg ttatcctaga 60
 aaaaaagaga aaaaaagaaa aaaaaaaaaa aaaaaaacaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaataa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaggg gggccactta 180
 aaaggatcaa agtttattaa ccagtaatt aaaataaaaa attttataaa agggcaacaa 240
 aaattaaatc aataggcctt attttaaaaa attttaaatt tgaaaaaact tggatttacc 300

<210> 30296
 <211> 262
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-052-Q1-K1-G4

 <400> 30296

 gccacaacc gtgcattcca gaggttcgct gtgaagacca acaggactct tgagagcgta 60
 tcgtcgaaag ctaaggaagt gagggaagag ttatcggaac aattgaagga agctcgtggc 120
 cagaaagatc acttcaagca gtgaagctgg ttccacatc gattcagcaa gatgatactg 180
 acaatcttgt tacgagttta gtccttgtct ggggtactatt tatgaatgac attttggatg 240
 ttattcaatg gaaattagtt tt 262

<210> 30297
 <211> 286
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-052-Q1-K1-G5

 <400> 30297

 gagagagcta gctttggcca ggcgtccaca gcagccagca caagatgtcg acggtggtca 60
 tgggggtgga tcttgagtgc gacaagtgc acaagaagat caggaaggtc ctctgcaagg 120
 tccaagacaa ggtgagcatc aggaccatct cctacgacga gaagaacaac acggtgacgg 180

tggtccgggcc cttcgacgcc gaggaggctg ccgacaggct caccgtctac gccggcaagg 240
 tcatcaccga catacacgtc gtcggggggt tcgggttcgg cttggg 286

<210> 30298
 <211> 697
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-052-Q1-K1-F12

<400> 30298

cccacgcgtc cgcccacgcg tccgcggacg cgtgggtgag cattcaaagc gttctaggg 60
 agaagatatt gaccaatata gtggagaaga atattctgag tgatgaactg taaatcataa 120
 ttatcttgca ccaacgaatt ttatcagtac atgtgaagcc ttaaaagggt tcaagcaata 180
 ggcacaagtg gtttcatggg gcatgggtcat gcagtgaag aaaatgtctg acaacaagag 240
 gacattgggg cttggccaat ttgttgatct ctgtagtgat aatagaaagc gtcacattgt 300
 tctaaagaag ttgtcttcaa agtcttggat gatgcgtata ttgcagttgc tccacatggt 360
 ccaggatagt gaaatattat tcatgggttgc ctgataaagt gtggaattat ataaattttc 420
 agcataaatt gttttattat taacgttcgt ttttgcctaa aataatgcat aagtatatga 480
 gatgataaaa gggtaatcat gaagcattct gtgggtccggg ggcccttaag ttgcaattct 540
 attccagcac anagtgacaa tgatatgatg acttttgggtc tgggtattatt aattctggac 600
 agtaattcag tagctgtggg aacggggcaa aaatttttcc ccccccttt tttttccac 660
 aaaaaaagg gggggggggg ggggggtttt tttttt 697

<210> 30299
 <211> 297
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-D8

<400> 30299

gaccgttttt cgttcgaggc agtgccaagc actgaaacat ggatgaagcg gacgacgacc 60
 catgggtatc ctatccaggg gcaatcgaat atagattttc ttgtggcgtg gccaaaggcg 120

gtgccgagcc tgtaccagta cgacgactca ggccagaaca cacggcgat ggtatggtac 180
acagcaaggc cgtgttggtg ctgtaagttt tgtaatttct gtttccttct tctcggcttc 240
gcagcatgca gttgctgtat atgatggaag aacactctgt tactgggcat gttgcgc 297

<210> 30300
<211> 629
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-D9

<400> 30300

gcctcaagga aatggccttg cttttacggt atcttcctt acaataacat tggtaggttca 60
cagctaattt ggattgcacc gagtggtggt agagatcgcc caaatccttc aacaggagag 120
tggtacccgg gcaggcgctt ttgattcat ccacagtgga caatatgagg aggcttctgg 180
agcatgctgg tgttcctggg cacatatatc cactattatt actgtgctac gaggttatgc 240
ctccaccaca acaggtcgag aaagagattg gtgaacagag ggtgatatcc ttccatggag 300
taggcttgct agcaactgaa gaaacaaagt atggggatat tacttgctcat accaagaatg 360
ctgatgaggg aaggagagcta ttcacaaata ctttgtacaa ctcagttggt aatcagtaca 420
atgtcctcaa atctgctatc tttagagatc gtggagcagc tgtatcaaac aatgccatct 480
cactgtcaca accatggcga tgaatgtag ctttcccagt ccagattcga tactgaagtt 540
accttttcag aagaacaggt gaactgcaat tgtgcaaatt ttctgggaaa aactcttgaa 600
agttaatctt tctgatatca ctggacttt 629

<210> 30301
<211> 294
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-052-Q1-K1-E1

<400> 30301

caaatactga tctcactgat ccagtatggc tatggcaaag gcaggcgcg cgagggtctc 60
ggcgcccag ctggtggctc tcgggctagc gctcctctgc gctgtcgccg gcccgccgc 120
cgcgcagaac tgcggctgcc agccaaacgt ctgctgcagc aagttcggct actgcggcac 180

gaccgacgag tactgtggcg acgggtgcc a gtcggggcccg tgccgtctnc tcaagctctt 240
cgccccgctc gccgtccttg gcagctcgcg caagcgccgc gctgcctccg cggg 294

<210> 30302
<211> 663
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-052-Q1-K1-E10

<400> 30302

atgaccgttt ccttcctcga ccattgtccct ctccagctag ctctctcccc tccatgtcgt 60
tgcttcttcg tcgtcgccgg ccgtcgtcac cactttttga cgcgctagcg cctagctgct 120
gctcgttctt ccacctcgcc agtctccatc aacgcggtc cgtcgccctc acgcacgcgc 180
gcatagatat aaacataaac gccgggtggc actggttagac attcttcact cccacgctag 240
ctacgcccac tccccccgcg ctatgcctat ggccgaccgc gtccacccca tgccatctcc 300
ctctctcccc cggttccac ctccgccagg gcgacggcga cctgacgccg accccgccac 360
ggagacgacg ccgctgcacc cgtccttctt ccacgccatc cgcggcctcg ccaacgccac 420
cgccaccgcc accggcgccg cagccccgct ctcccccgcg ctcgacgccg ccgtgcgcgc 480
cgacaacggg cgcaacggga aggtgggct ggagtaccgc gcggggcgcg ccgtcgcggt 540
gtcctacgcg gggcagcggc tggccgcggg cccgtggccc gcgttccgcc aggcgccgcg 600
gaacgtcacg gtggtcgcg gccgttcttt agnaaagggg ggaaaaattt tttccccccc 660
ccc 663

<210> 30303
<211> 590
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-052-Q1-K1-E11

<400> 30303

catgcactgt tttatgtggt ctccatgctg tcagcctgtg ctctgttctc aaagacatgg 60
attgaagttt cgggttcac agcaaaggat gttgctaagc agtcaagga acaacaaatg 120

gtgatgccag gccatcgtga gtcgaacttg cagaaggaac ttaaccgata catccccact 180
gctgctgcat ttggtggtgt atgcattggc gcattgaccg tcctggctga tttcatgggt 240
gcgattggtt caggaactgg tatattgtc gctgtgacaa tcatatacca atacttcgaa 300
acctttgaga aggaaagggc gactgagctt ggtttctttg gtttttgatt agtagctgtg 360
gaaccttaac ttggctatag ctgaattttc ttgtaagtcc ctgtagtgct tagccagtgt 420
taacttaaag agttctgttt aagttgcctt cttgcggcc caatcatgta gcagaatgtg 480
cgtgtgtttc aagttagcgt gggggtatgt gcatctgtcc aaagagtctg caatttggca 540
accggatatt ttgntatcaa tttcagttac ttcgaactga gcatgttctc 590

<210> 30304
<211> 706
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-052-Q1-K1-E12

<400> 30304

cccacgcgtc cggagagcgc gaagttaagc caccatgtgg acgagggctt tagcgacggt 60
gctgctgttc gtggcaggcg ccgcgtgct cggcgctggc ggcgccagcg cgcagcaggg 120
cgtgtggagc atcatcactc gtcccatgtt ccagagcatg ctgagccacc gcggcgacag 180
cgggtgccag ggcgccttct acacctacga cgcgttcac gaggccgcca gcaagttccc 240
cggcttcggc accaccggcg acgagcagac gcgcaggcgg gagctcgccg ctttcttcgg 300
ccagacgtcc cacgaaacca ccggtggatg ggcgactgct cctggtggac cgtttgctg 360
gggatactgc cgggtgaagg aacagaacct gacggaccca ccctactatg gacgaggacc 420
catacagcta actcatgagt acaactacag gctcgccggg caagcgctga acctgaacct 480
ggtgggcaac ccggacctgg tggcgagcga ccccggtgta gccttcaaga cggccatctg 540
gttctggatg acgccgcagt cgcccaagcc gtcgtgccac gccgtgatga ccggcgctg 600
gacgccgtcc gncaccgaac cgggcccgtc cgggggggtg ngagaggggg gggggcccc 660
cctttttttt tttccccccc ccccccccc cccgccgggg gggggg 706

<210> 30305

<211> 268
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-052-Q1-K1-E3

 <400> 30305

 ctcatgcacg gtcaactgag acaacagaaa tccaaatagc accattttca atatggacag 60
 aggaaagaaa ccccatgagg agcaatcgag cagcatcccc atattgacgg agccaaacag 120
 atgatgcctc aggacaatga tttggtacat ggcgcgccct accatcgag cgtttccttt 180
 cttcttgcc ttagttggg ctacctatac tgctttgttc ttcctttcta attgccttcc 240
 tatgatcttc cctagttcta gatcgga 268

<210> 30306
 <211> 375
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-052-Q1-K1-E4

 <400> 30306

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 gagggcgcaa gtgctacgag aaccccaagc acaaggtcac cgctgtcccc gccgacgaag 120
 aagagatctg cggtgccact ttcaagggtg tggaagggtc tactgtcctg acggcgctgc 180
 actgatctat catcatcagg cggaggcgat gcgatgatga tgcagaactt tgtacatgcg 240
 ttggtggatg gtggtgtaac atagtggctg ccaacaagtc atgctcatgc aaaccgatga 300
 atctatctct gtatcatcga tctcgggtgc ttgctagtcc agacttcaga catggctata 360
 tatatatagc tgggg 375

<210> 30307
 <211> 329
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-052-Q1-K1-E5

 <400> 30307

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gtcggtagct cactcgatcg cagaggccac gctgctcaag ttccctcaga tctccgcagt 120
 ccgagtgaag gttggcaagc ctcacgtcgc ggtgcgagggc gttctggact acctgggcgt 180
 ggagataacg aggcacagaa agaaagaatg agatgctgta cacatgtggt gatggggagc 240
 cagttcaatg ctgatggcac tgcggccata accataatcc acgcacgctt gttgcttggt 300
 ggcaactagg catatccctt tcacctttg 329

<210> 30308
 <211> 291
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-E6

<400> 30308

cccacgcgtc cgcccacgcg tccgcccact cgtccgggca cgccacgcaa gctctttggg 60
 tctgtatctc actcgatcgc agaggccacg ctgctcaagt tccctcagat ctccgcattc 120
 cgagtgaagg ttggcaagcc tcacgtcgcg gtgcgagggc ttctggacta cctgggcgtg 180
 gagataacga ggcacagaat gaaagaatga gatgctgtac acatgttggt atttagagcc 240
 agttcaatgc tgatggcact tgtgtcataa ccataatcca cgcacgcttg t 291

<210> 30309
 <211> 355
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-E7

<400> 30309

cccacgcgtc cgcccacgcg tccggcagaa acgagagggc aggagcagcc gcagtcccgg 60
 cgatcccgcc gccggtcgcc ctcatacttc ctcgtcactg ccttcgtttc tctttccaac 120
 aatcaagatg agccgtggcg gtagcgcggg tgggtggtaa agttctctgg gttacctctt 180
 tggaagcggg gagcccccca aaccagcagt ggcaccagct gtaagtgtc cacctgctgc 240
 tgcaagtgtc ccacctgctg agaaaccacc tgctgcaaag cctgatggca ccagtcagat 300
 tgctgctggg gttaccagcc aaaccaatta ctaccacaag gccaccgctc aaaac 355

<210> 30310

<211> 57
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-E8

<400> 30310

tggagtttta cattaaaaaa aacaaaatta aaaaaaaaaa aaaaaaaaaa ggaaaaa 57

<210> 30311
<211> 573
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-052-Q1-K1-E9

<400> 30311

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cctgaggagg cagtgatggc ggccacgatt cagtacaacc ggagcaaccc ggcggtgaag 120
cggatcctgc aggaggtcaa ggagatgcag tccaaccctt caccgcactt catgtccctc 180
cccctcgagg aggacatctt cgagtggcaa tttgctatcc ttggtccgag agacagcgag 240
tttgagggtg gaatttatca tggcaggatc cagctacctt cggattatcc attcaagcca 300
ccgtccttca tgctacttac gccaaagtga cgctttgaga ttcagaagaa gatttgcttg 360
agcatatcca attaccaccc tgagcactgg cagccttcat ggagtgtccg cacagctttg 420
gtagccttga ttgccttcat gccgacgaac ccaggtgggg cattgggctc actggattac 480
aaaccagaag acagacgagc acttgcata aaatcacgtg aggtgccgnc gaaatttggc 540
tccccacaac gtcagaaact aattgatgag atc 573

<210> 30312
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-F1

<400> 30312

cccacgcgtc cgcagtgccg gtgtttcggg tccgcgaagg cggcgagca ggagcggcgg 60
gcggaggcgg accggctcga gtcgcaggat gtcgcgccca aggccgccga ggccgcgcag 120

aggagacagc aggagtatga gaaatcggca gctggaaggg cagccaaagc acagatgaaa 180
gcaatgaagg aatcaaagac atcaaaccac ggtggagagc cggttcttaa gtggcagatg 240
ggatcatgag ttctgtttct gttgatttgc atccctccgc ttacttttga tggccgacag 300
aaaattgatt gcgactaatt tctgatagga tgcactgtga ttgtgtgatt atgccagtga 360
agtggacatt cgggttacca tctgctatgc tggacatgct attccataga ct 412

<210> 30313
<211> 327
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-052-Q1-K1-F10

<400> 30313
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gagatggccg acggggagga cgccgccgcg cgccgccggc ggccgtcatc acagactacc 120
gcaagaagct gctcaactgc agggagctag agtcgcgcgt cggcaccgtg agagaaagcc 180
ttaaaactgc aaagaaggat tttaaccaaga ctgaggacga cttaaagtct ctgcagagtg 240
tggggcaaat aattggagaa gtactccgac ctcttgataa tgaacgctnt atcgtgaaaag 300
ccagcaatgg tccccgatac gtggtcc 327

<210> 30314
<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-D7

<400> 30314
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gctactctcc gcgcgcctac cgttccgcgc cgcacggat tgggtggtcg gggcctagtc 120
gaggttgccg gggacagcgt cagtccatgg cggagcttgt gggaccgcgc gtctacagtt 180
gctgcacttg ccggaaccac gtttgccctc acgacgacat catctccaag gcctttcagg 240
ggaggaatgg ccgtgcgttt ctgttctctc atgccatgaa cgtagttgtg ggggcgaagg 300

aagatagaca cctcatgaca gggctacaca c

331

<210> 30315

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-C3

<400> 30315

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cccctgctcc caagcctccg acgcccgaagc cgaccccgcc gacgtacact ccaagcccca 120

agcctccac acacccgact cccaagccga cccaccgac gtacaccct tccccaaagc 180

cttcgacgcc caagccgccg gccaccaagc cgcccaccta cactccgacg ccgtcgggtgt 240

cttacaccct cagcccgctc tcaccatact actagaaagc gatgcctacc ataccacact 300

gctgtcagtc tctggagcat ttaggtgggc tggatcaatg gaaaggttgt 350

<210> 30316

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-C4

<400> 30316

cccacgcgtc cggctactgt accggccccg gcctcttggt taatctgaaa tgctcattgg 60

atatccgctt acgaaacgca aacacgtgct ttggcacgtt cgtcgtcgaa aagagaagag 120

aatataccat tttgctctct tgaaaaaaaa aaaaaaaaaa aaaaaaaaaa aataaaaaaa 180

aaaaaaaaaa aaaaaaaaaa aaatataaaa aaaaagaaaa agaaaataaa aatattattt 240

gttataaaaa ataagaaaaa aaaaaaaaaag ggggg 275

<210> 30317

<211> 139

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-C5

<400> 30317

cccacgcgtc cgcccacgcg tccgcccact cgtccgaaaa aaaaaaaaaa gaaaaaaaga 60
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 ataaaaaggg atgaatttt 139

<210> 30318
 <211> 345
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-052-Q1-K1-C6
 <400> 30318

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 cttggcttga gctggtgagt cacaggagct tcatgccaaa actgctgatg tgcaattcac 120
 agaaaagggtg gccatttttt cagcgactgc ttgttgctct tctcaagttc atggaaccat 180
 atctgagaaa tgctgaactc ccagaggcga tggacctttt atacaaggga actatgcgag 240
 ttctgcttgt actactgcat gactttcctg aatttctttg tgattatcac ttcagtttct 300
 gcgatgtgat tccttcaagt tgcattcaaa tgcgcaatgt cattc 345

<210> 30319
 <211> 398
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-052-Q1-K1-C7
 <400> 30319

tccctggtct acccactctt cctcttactc ttttggcaaa aaaaaaaaaa tataaaaaaa 60
 aaaaaaaaaa aaagaaaaaa ttgaaaattt taaaaataaa aataattaaa aaattaaaaa 120
 caatattatt atattatttt tttaattaaa tttatttttt attttttaat ttttttattt 180
 tttttttttt ttttttttat ttttctatat ttttttattt tttttttttt taaatctttt 240
 tattttctat acttattttt tttttttttt tttccttttt tttccttttt ttttttttta 300
 tctttttttt tttttttttt ctccatcatt attttttttt ttttttttta ttttcatttt 360
 tattcctttt tttttttttt tattttttta tctttttt 398

<210> 30320

<211> 258
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-C8

<400> 30320

gataaacatt tgatatgcac agataataaa aatatatagt agtaaataat aggccataga 60
tattttttatt atctgtggat aaacatttga tatgcaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaagggaga aaaaaaaaaa aaaaaataaa agaaataaaa caaaaataaa 180
aaaatgataa ataacattta ttgccactaa tccaattta taaaaggaga aggtaaatca 240
ttgaaaaaaaa cactaggg 258

<210> 30321
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-C9

<400> 30321

ccctctcttc cgccatcccc agctcagccc accacacagt cacagcctcc accgccgcgg 60
cgcgcgcggc cagccagcca gccagccagc catgaggcag tggaaatccc tgggtcccggc 120
gctgcacctg cacgccccgg cggcctcctg cttcccgcac ccgccgtcgc cgtcgccttg 180
cccgtcgccg ccccgcgggg acgacgccac cacgacgccg ccgccgccgc cgccgcacct 240
gcaggcggtg cggctggtgg gctgcgacgg gcgcgtgcgc gcgtacgctc cgccggtgac 300
ggcgcgggag ctgatgcagg cgcacccgcg gcacctggtg tgccgcgccg acgcgctgct 360
catcggcgag aagatccccg ccgtggcggt tgctcgatga gcttgtgccc ggtgacgcct 420
actttcctgc tgccgtgtta cctgtttcgt tccg 454

<210> 30322
<211> 188
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-D1

<400> 30322

acgcacatcgat ttgaatgaca accttctaca taattgcccc tgtaatttgt acactaatta 60
 tgcggagagg gagctactgc agtagagatg agctgatgta aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaataaaaaa aaaaaaaaaa aaaaaaaaaa aaagggcgac 180
 cgatttaa 188

<210> 30323
 <211> 601
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-052-Q1-K1-D10

<400> 30323

cacgtcctcc atagctctcc tccaggagag gttcagaaac ctgcagaagg tgaaggagat 60
 gagggaaggc agggagctgc agaggggtgca cgctgctgat actactacta ccaccaccaa 120
 ccgcaccgct tcgtcgccgt cgtcctcgtc gtccctgtcg tcggctctca gcctcggcct 180
 ccaacaggcc gccaacgcca acgaccaccc gaggtgggtc ttgcaccgga acttgatccg 240
 gccgtccagg ccgtcgcgcg gacacgcgtg ccacggcctc ggcgccaccg gtgggtggtg 300
 cgtcgtccag acgacgtcgc cgccgccact accgcccagc tcacgtggtg gagggagcga 360
 gaattcgggc tataggactg atatagatgt cgatacctcg ctccatctgt aatctcttct 420
 ataataagca cgtatggccg tgctgntctt tcgttgcttt tttttttggt atggcttgct 480
 agtttcccgg ccttatttgc agctagctag cactacgtac ttcttctgtc gtctcggggc 540
 ctgccttgta actgcttggg tacttttact atatatgagg ctttctatag atcgatgatt 600
 t 601

<210> 30324
 <211> 601
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-D11

<400> 30324

ccctagggtt ggggggtcaaa gagcatgagg acagcagcaa agacgctgat ggcacttgta 60
 acggtgacgt ttcacaggaa tgtccccatt cttgatggga agatttggtt gcagttttct 120

aggccccaag ctttacatgg actaagcctc catttgtttt tgcacctcga gtttttgatc 180
cagcagttag catgacatcc atccgttggt gagaaagagg cttgccgggt tttttttttg 240
gcatattata ttagttgatg gggcaccccc tttagtttta ctcagaaatt gatgattgac 300
gcgtcggcct gggaaaagaa tgaacccgtg cagttctgaa aaagcgttta ctccatccag 360
ccagctaact taatgtgcag ctgaaaagtc ggcattgtaga agaattgtgga ggataacgtc 420
ccttcttttg tttctcgtcg ttaacttgag actccgaggg cgaatgcagc cattgaatcg 480
tcgtaaatgt tacatcagtt gttgttttgt taataggttt ttttatgtct tcgctagcgc 540
attcctggaa tctaattca ttctgtgaag ataattcaca tgtctgtaag atcagctaatt 600
g 601

<210> 30325
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-D12

<400> 30325
cccacgcgtc cgccacgcg tccggcgcca acttgctgaa cgggctgatc aacgcgaccc 60
tggggacgcc gccaggacg ccgtgctgca cgctgatcca ggggctggcg gacctggagg 120
cggcgggtgtg cctctgcacc gtcctcaggg ccaacgtcct gggcatcaac ctcaacctgc 180
ccatcaacct cagcctctc gtcaactact gcggcaggcg cgtccctcgc ggcttccagt 240
gcttctgact atcacacgcc catcgatcga tcgatctgga ggctaaataa tttctccaag 300
ctgctagtat acgtacgtac gttgatatat atgatgtagt attatatata tgtccatgca 360
tctcgtcgtc tatcgcatgt tgttggtgtt gttggtgttt ttcgatgatc ctgtctctgt 420
tataaatatc attattatta c 441

<210> 30326
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-D2

<400> 30326

cccacgcgtc cgccacgcg tccgcccacg cgtccgtcca cgcgtccgcc cagcgcgcgg 60
 ctgagatgat tggaagcatt gttgggggtct acaacggcaa gaccttcaac caggttgaga 120
 tcaagcctga gatgatcggc cactaccttg ctgagttctc catctcctac aagccggtca 180
 agcacggcag gcccggtatc ggtgccaccc actcctcgcg gtttattcct ctgaaatgag 240
 ctgttactcg gctcttttagt atcccaagag tccggttgca atgttcattc agatttttct 300
 atttctttag tatcccaaga catttgtgtt gttccattcc agcttaagaa ttcaaagctt 360
 agcattgcac aattatgctg gt 382

<210> 30327
 <211> 351
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-052-Q1-K1-D3

 <400> 30327

cggacgcgtg ggtgcgggtca ttgaaaaatt gcataaggta ctagtagtga ctgtattgtg 60
 atctntgatc tntatatatc ttctttcttct tttcttttaa agagtgagtt ggatatgcat 120
 cgtcaatgca tgtacatatc acatatgggc tagtttagtag ttaattagga gtacaattga 180
 taaactacca catgtgacag tgaacagtat ttttcatctc gtgcagcaca caggaatctt 240
 attcttgacg atctccagtg attccaaaga ctaaaacatg ttcaactgtc ttgtgattga 300
 ttcttgcag gcacatcaat cgacctgggg attgcgtaca ttcttatgct g 351

<210> 30328
 <211> 219
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-052-Q1-K1-D4

 <400> 30328

acccacgcat acgccgactc ctgtacccta tcatttcgaa acagcgtcat gcaactgatac 60
 atacatgaat cggtagcact ggccatgtat attctatcca gtagcaatct aatatagatt 120
 ttcttgtatc ttcacaaaca tcggcacctc acctgtacac atacgacaac tcatgccata 180

atacacgtac tattgtttgg ctcacaccta ggccatttt

219

<210> 30329

<211> 51

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-D5

<400> 30329

atcacatcat actattttgcg gatataaag cttaatcatt cggatgcgtg g

51

<210> 30330

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-D6

<400> 30330

catgatgtag atccaccaac tatgggtcaag gccagcagcc gtgaggatgc ccaaccagtg 60

actgaatcat ctaatgctga ggtgaacaca tcaagtgtg tggctgtctg agagtctgag 120

tcccatgaaa ttggatcgcc aaagagtcta aaagatgcta tcaaaccaaa acataaaaga 180

aagaagaaga aaagtgcacag gagttagttt agttgcaagc ctgtaatttt gtatgcccc 240

gataaatcaa ggacagtcta caacacctca aactcctgat tgatgaagtt tcatccgggg 300

tgccatacat ggggtttttt ggggttttca 329

<210> 30331

<211> 475

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-C11

<400> 30331

cccacgcgtc cggcgctggg cgcagcaggg ccacatggtc tactactact gcaacgactt 60

ccgcagggac cactcgtca cgcccagagt ctagcgagcg cgctgtctg ctgtgctgtg 120

tcgtcgtcct tgttgctttg tgctttgttt cgttgttgat gaaaaggctg ctaggcgtgg 180

ctgccctact acgcccgcgc ccgcccgcgc tctctctgct tgcggtgact gaggcgcccg 240

cgcgagccgg tgggtgaggc gttggtcggt ggcttatcgc cagcaaactc gtgtcgtcgc 300
 tcgtctacgt acgtgcccac tgcatttctt ccggttggtg ctttccattt ggtctcgcac 360
 cgcatgcac acacgaggcg ccccaaaggg ggcaagcgct tccatgattc atacggatac 420
 actatgtata ccatatatac acatattata tatatattta atacatgttt cctgt 475

<210> 30332
 <211> 463
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-A9

<400> 30332

gaaaatggga ctcacgctac tctgttcag ccaaggcagc caagctatat ggctgcaacg 60
 gagtccgcaa aggcgaaatt gcgagcccag aattcaccca gtctggattc tgattcagcg 120
 gcagaaaaga atggtttcac ccgacgccac tctcttcctt ccagtacaaa gagtagagca 180
 cttaaagctg aatggaagcg ctgaagaggc aaccatcgt ccacttgaat tgaattgtgc 240
 actgctctga aacttcgctg gatgaactcg accggtcttg tcccatgttc ttgctgtatt 300
 gaacaacccc ttgtgaagtt gcgattctgg ttcagtttgt cgtagggtca tgtgcaacca 360
 ctagtgcctt gtgtcgtata ttgcatggtt cttgtcgaag gaacaatgcc tgcgaaagct 420
 gatgttagga ctgcattaac tgaataacat caccagttg ccc 463

<210> 30333
 <211> 230
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-B1

<400> 30333

taccggttcg gactgaccca cgcgtccgca agcccctgta cgacaccatg gcgggtctgg 60
 aggaagggga gaagagcggt gtcaagtgc acatgttgga cctcagatca gatgaaacgg 120
 tcttttctag tctctcgtgt tcaactacgaa tgtgcaatag tgcaacatgt cgcgaggtga 180
 tgaattccac aaagacgagg tgacggagca gggcattcaa aagcccgag 230

<210> 30334

<211> 436
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-052-Q1-K1-B10

 <400> 30334

 gttctgcgac ggcaagtgcg cggtgagggtg ctccaaggcg agccgggcacg acgactgcct 60
 caagtactgc gggatctgct gcgccacctg caactgcgtg ccgtccggga ccgcggggcaa 120
 caaggacgag tgcccatgct accgcgacat gaccaccgga cacggcaacc gcaccaggcc 180
 caagtgcccc tgatgatatt cattccttcg ctccctccgg ggagccagct gtcttgcatg 240
 cgtatatgta atgtatgtat aggtctgtgca atgcatgcat acatgataca tgccgtgact 300
 ctggatcggc ggatgcctat gcatgctttt cactagctat tattactact actactactc 360
 ttctgtctt cctactgtgt gcaccagagt gagagggacg acatgcatgg cgatgacatg 420
 tcgtgttatg tgcact 436

<210> 30335
 <211> 614
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-052-Q1-K1-B11

 <400> 30335

 cccacgcgtc cgatctcagt cacctgcgcc gccgcttcgt tcgtgtggag gggagaagag 60
 aggaaatggc ggcgaccgag ggcgtgctcc tggggatggg caacccctc ctcgacatct 120
 ccgccgtcgt cgatgacgcc ttctgacaa agtatgacat caagctgaac aatgctattc 180
 tcgctgagga gaagcacttg cctatgtatg acgagttggc tagcaagagc aatgttgaat 240
 atattgccgg aggagccacc cagaactcta tcagggttgc ccaatggatg cttcaaactc 300
 ctggtgcaac aagttacatg ggatgcattg gaaaggacaa gtttggtgag gaaatgaaga 360
 aaaacgctca agctgcagga gttactgctc attactacga ggatgagact gtcctactg 420
 gcacatgtgc tgtatgtgtt gttggtggtg aaaggtcatt gattgcaaact ctgtcagcgg 480
 caaactgtta caaatctgag catctaaaga gaccagagaa ctgggcacta gttgaaaagg 540
 caaaatacat ctacattgct ggatttttcc ttacagtgtc gcctgattct atccagctag 600

tcgctgagca tgct

614

<210> 30336
<211> 602
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-B12

<400> 30336

gcggacgtga tcaccattga gaactcgcgg tccgacgaga agctgctctc cgtgttccgc 60
gagggcgctca agtacggcgc gggcatcggc cccggtgtct acgacatcca ctccccagg 120
atcccgtcgg ctgaggagat cggcgaccgc atcgacaaga tgctggcggg gctggacacc 180
aacatcctct ggggtgaaccc cgactgcggc ctcaagaccc gcaagtacac ggaggtcaag 240
cccgcctga ccaacatggc ctccgccgct aagctcatcc gcaccagct cgccagcgcc 300
aagtgagcac cttttttttg cttttttcgt ttccgaggag ggcgctcgtc atgccaattt 360
gtttccaata aacagggctg tgcccgccgt tctgttgtac tccgtctgtg gttagggttag 420
tagttttctt gatctcgccc ccacgcggta cctgttttac tactctctgt ttggtggttt 480
ctgaggcaag ttgcccgtgt acttgatcgc taaaaaccga gtgggacatc tgcacgtttt 540
catctgccac cactcccccg aggtgtgctg ttccacggct taaagaaaga tgctgtatcg 600
gc 602

<210> 30337
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-B2

<400> 30337

gtgttgatgt gtgcgatatg gagtaaaatc cctggagaat taggtggagg agaaggttgg 60
gttcaacgct ccttaggtgt tctatgaagt gcttgaactg aagttcgttg tcgttctgtt 120
caccgcggtt cgtaattga tcacgtgatg cggacgacaa gagccgagtt gatcccaaaa 180
tgatgctggt gaacgaacct gaagcttggg tgatctggtc aagtaccagg atgagagatg 240
ctccccaagc ggacatcatc taacaacact gacttagtgt tatctcagac aagccccggt 300

gcatttgcca ctttcttctg ttttaaaaac ttttattact tacct

345

<210> 30338
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-B3

<400> 30338

cggacgcgtg ggcaaaaaat gtgattattht gttataatgg tctctgttct taaggcgtgg 60
cctaggcgctc gcctaggcga cgcctaggcg tccgggcggt ggtctaacgc ctaggcgcct 120
tgcccgccta cctcgccctag gcgctccaggc ggtgggtccaa cgccttggac cgccttaccg 180
ctttaaaaac catgataatg gtaaacgtaa gttttgtgct atgagcctat agcttctccc 240
ctatcgtggg cagtcgtgctc aggatacttg gtttctgtga aacattcagg ctgtcattat 300
gtctggtctg tagaatgtgc tagtgtgaat gttctgctat ttcaata 347

<210> 30339
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-B4

<400> 30339

cccacgcgtc cgcccacgcg tccggagatg gactccccca agatctctga aaatgaaggt 60
gttgggcatc tgatcacacc ccaggaagcc tgcaaccgca tagcagaggt agtccaagag 120
gccgtgagaa agatggagct cgtgggtgaa gaaaagatgc gactttacaa gaaggctcgc 180
ctcgccgtgg aggctgcga ccgagagctg gaggagaagg ttagggaagc ccaggagctg 240
aaggcagagc gtcagcgcaa gaagcagcaa gtggaggagc tggagagcat cgtgcg 296

<210> 30340
<211> 299
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-B5

<400> 30340

cggacgcgtg ggcggacgcg tgggttctcc tccccctctt accaagtcct gctcaggtgg 60
 agggttcctt agggttttgt ggaggggcca tggcggcggc tgatgtggag taccgttgct 120
 tcgtcggcgg gcttgccctg gccaccagca acgagtcgct ggagaatgcc ttcgcctcct 180
 acggcgagat cctcgactcc aaggtcatca ccgaccggga gacggggagg tggtgcggct 240
 tcggcttcgt taccttctcc tccgagaact ccatgctcga cgctttcgag aacatgaac 299

<210> 30341
 <211> 320
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-052-Q1-K1-B6

<400> 30341

cggacgcgtg ggcggacgcg tgggcggacg cgtgggcgga cgcgtgggcg gacgcgtggg 60
 gccttcgtga aagctaaaga cggaggcttg gaagtcattc agacctaagt cttttgtaat 120
 ggacatgagc ctacgcctgg aaattactat ttcgaggaga ggtacgattt agtcaggttc 180
 ataaagacgg tccagaaggc cggcctgttt gtacatctct gcatcgggtcc tacatttggtg 240
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 tggagcatta tcgtgtcttc 320

<210> 30342
 <211> 350
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-B7

<400> 30342

cccgttagac taggttaggc taggctaggg tgctgaccag ctcgcggtaa tgggtggcgg 60
 caggttccat cagtaccagg tgggtggggcg cgcgtgccg acgcccggcg acgagcaccc 120
 caagatctac cgcataaagc tctgggccac caacgaagtc cgcgccaaga gcaagttctg 180
 gtacttcctg aggaagttga agaaggtaa gaagagcaac ggtcagggtcc tggccatcaa 240
 cgagatcttc gagcgtaacc cgacgacgat caagaactat ggcattctggc tgcgctacca 300
 gagcaaaacc ggctaccaca acatgtacaa agaggtccgg gacacaaccc 350

<210> 30343
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-B8

<400> 30343

gttgcaagaa ggggaattcc gctgcgagat ccgtgaacgg ttcagagatg gcacagacgg 60
tgttcacccc ctctttggaa gcgatgaagc atgtcaaggc agagaacgga gtcattctca 120
ccaagccctt ccttgatgtc tgcaagcaaa tattgcctgt cctcgataaa tttggagctg 180
ctatggcaat tgtaaagagt gatatcggcg gcaatatcac aagactggaa aacaagtata 240
cttcagaacc atcaaagtat gaacacttgt acagcatgat tcaagaagaa gttcaaaaca 300
agaccgcaaa aagttcctta agctgcacaa atgggc 336

<210> 30344
<211> 513
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-B9

<400> 30344

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gcgagctgcc ggcaagggtc tggacgaaat gcctccgccg cgcttcccct ttcccctcca 120
cctcgcccgc cgctcctcgc ctctccagcc tcagccgtgc ttccacgtct ccctttccgc 180
tcgcctctcg ctcccggcgc cttctacact cgctgccctc ggcgggcgtg cgcgtgcgcg 240
tgcgcgcgca gctgcagacg cgcttcttgg cgagcgaagc cgcgcggggc ggtgtcggcg 300
ggcgcgggcc agcagcggac agcagaggag aggcgcagga gtgggcggtg gagtgggagg 360
acagcgagga cgacggctac gagcccagaga tcggcgacgg cggtgacggc ggccgggtcg 420
cgctgcgggg cgctcggttg ggcgagcgtg ccctcgtggc ggccgaggag gttctcgccg 480
gccattttgg ggatgacatc gcaatgttcg cct 513

<210> 30345
<211> 392

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-052-Q1-K1-C1

 <400> 30345

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 tgttgctgcc atgaattctg cgtcggttgc agagtgggca acctctctgt cattgctatt 120
 tgatcccaaa tgtccaggat tggagtcact tgtggagaag gtgaaggaga ttgttgagag 180
 caatgaagtg aggagattgc ctaaaattcc aaaggggtaca cgcgactttg gtaaagagca 240
 aatggcgata agggagcgag cattttcaat tataactagt gtattcaaga tgcatggtgc 300
 tactgcgctt gatacacccg tatttgagct gagagaaacc cttatgggaa aatatggtga 360
 agactcaaag ttgatatatg acttaactga tc 392

<210> 30346
 <211> 503
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-052-Q1-K1-C10

 <400> 30346

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 gtggcctcat ttgaaccata ctgccagatg cacatccacc agcagcagcg ccaatgccga 120
 tattgacgga cgctgacgtc gcagaaccag ccctctctgc gagaagcaac agcaccacag 180
 ctgcatggac ttggtatgcc gcaactcagaa tgcgaaccca tgtcttgagc atatccacat 240
 tgctgatgct atgggcttgc ctctcatct gaagatagtc ctggtcaaca tcatacgcg 300
 cgtggcgcat tagatctgac gattttcaca ttgagctgtt aatagcaatt actttccagc 360
 agctatatgt aacgtataat gacattgac tgtgcggtgt tatggaggat ggatggatgt 420
 tgagcttgat acctcaaagg tggcacttga tcgtgctgcc agatgtctct aggtacatat 480
 gggtacatac gtgtggatat aca 503

<210> 30347
 <211> 343
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-052-Q1-K1-A7

<400> 30347

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agtcttcctc taaagctcgg agcgagtcctc agaagcgatg gcgtcaaaga ggctgctgct 120
ggcggcgctg tgcgtggtgg cggcggcgct gctcgccgtg cggtcggagt cccacggcct 180
ggaggacttc gcaagcagcg acgcgacgcc ggagatgcag accttcttca agccccaggc 240
cgcgggcgctc ccggaggccc tggacgcgtc ctccatgccc gccgncacca tggccgcgaa 300
gccggaggcc acgtcgatcc cgaccaccaa caccggcacc acg 343

<210> 30348
<211> 290
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-H10

<400> 30348

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tgtgttttct gaaacgcata agcgtgtcag tagcatgttt tcataaccgg attgtagtgc 120
ttcattatct atagttttct gtacgtgtaa aatagaccag cgtaacagcg tagtttgctt 180
cattctccga agtattgtat ggctgtacac ccaggcatct gggcatcatg aacccaactg 240
attggctaaa tgaaataaat ctctccatc caacagcaaa tttacaaact 290

<210> 30349
<211> 511
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-051-Q1-K1-H11

<400> 30349

ctcaccgcg cagtgtcgt ggcgtgccc cctctctct gctgctcgc gccgccgccc 60
gggccgcagc ggggctcgtg tccgccgcgt cgccggcagc cagcgacttc gtccgcaagt 120
cgtgccgcac gacgcagtac ccgtcgggtg gcgagcagag cctggcgctg tacggcgggt 180

cgccgcccgc gcggagcccg cgggagctgg cgcgcgccgc gctgtcgggtg agcgcggacc 240
 gcgcgcgcgc cgcgtcggcg tacgtgggcc gcctgtgcgg cgccagcaac ggcaaaggcg 300
 cgaagaaggg gtcgggatcg gcgtcggcgt cggcgtcggc aggtcccgtg cgcgactgcc 360
 tggacaatct ggcggacagc gtgggccacc ttcgcgacgc ggcgcatgag atgggcggcg 420
 ccgggatggg ccgcgcgggtg acgcggcgt tcaggtggca cctcagcaac gtgcagacct 480
 ggtgcagcgc cngctcacc gacgaggaca c 511

<210> 30350
 <211> 210
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-H12

<400> 30350

gcataagaac gtaaaaccat ttgtgtcgca atggttacct ctaatgttca cctcttaaaa 60
 agaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaacaaaaaa aaaaaaaaaa aaaaccaaac aaaaaaccaa 180
 caaatcacca ccaaacacaa aacccaaaaa 210

<210> 30351
 <211> 253
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-H2

<400> 30351

cccacgcgtt cgcccacccg tccgccaatc cttccgggat tccggaaaaa ttggccaagg 60
 ggaggaacac acacggccac aaccagtttt acaaggccca caagaccggt ataaagaagc 120
 caaagcgcca ccggcagacc ttcaccaagg gtatggaccc caagtttctg aggaacctga 180
 tgtattcaag gaagggcaac aaaaagagtt gtgggtctga agaattaaaa agaaaacatg 240
 gttgtttttt tta 253

<210> 30352
 <211> 109

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-051-Q1-K1-H3

 <400> 30352

 tcccactctt cctcccactc gtccaccac tcttctgta ctgacaatta attttttaggc 60
 agactttatt ttaaaatata tataccactc cctcttatat taaactttt 109

<210> 30353
 <211> 231
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-051-Q1-K1-H5

 <400> 30353

 cttactcttg gtctgactcg ttggaaaaat taaaaaataa aaaaaaaaaa aaaaaaaaaa 60
 aagaaggatt taattaattt atatataaaa tccattaaaa ttcccttctt ttctttataat 120
 atccttcttt attttctctc tctttctttt cttttttctt cttttttttt ttttccctct 180
 aataaaactt aacattcccc tcttttttcc actcttttat atttcttaaa a 231

<210> 30354
 <211> 89
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-051-Q1-K1-H6

 <400> 30354

 ggtcgccac tcctacgttt taagaacaat ctacagtaag tggcgttctg ccgcaacagg 60
 acttcacac tgaactagtt taagctgga 89

<210> 30355
 <211> 322
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-051-Q1-K1-H7

 <400> 30355

 ctacttctag atccctacca ttgccttctg tgatactgac tcttccattc cgtacctcga 60

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-052-Q1-K1-A1

 <400> 30358

 tcgcccacgc gtccggccag tcttgcatcc cgtccccgtc cgcgccggcc gacgccgcct 60
 tggcgtcccc gcgtcagcgt cgcggtcca ctgagcgtgc gtgtcaccgg cgggaggcaa 120
 gggcaggcgg tgggtggcgt ggcgtccgct gacgcgcgct tggcggggat cgctctctcc 180
 atccgcgtca tccccgactt tccaagcca gggatcatgt tccaggacat cacgacgttg 240
 ctggttgatt ccaaggcgtt ccgtgacacc atcgacctct ttgtcgagcg gtacaaggac 300
 caagggatca ccgtggttgc tgggtgtgaa gctagagggt tcatttttgg tccttctatc 360
 gctttagcca ttggcgcaaa a 381

<210> 30359
 <211> 587
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-052-Q1-K1-A10

 <400> 30359

 cctcctctcc ttcgggtca gcggtcat cctcctctcc gtgtacgaga cccggttcag 60
 gacgatgagg agcgtcagtg cgtggtccag tgacgggtggg gattatccat tgccaatgct 120
 ccggaacctt gtcattggtg ctgggcattc gatctatacg agctcaagat gcggggagac 180
 cgagagttag aattcctggt tcttgagacc gtaccagaag cacgctggac aggcggccac 240
 cttcctggct cacatcaagg agggggtggg gatcgcgcg agggatgagg gggcactcct 300
 gttgttcagc ggcggggaga cgaggagaga tgctggcccc aggagtgagg cacagagcta 360
 ctgggctatt gccgagtcga aaggatggtt cggaaatgat gaggggtgtaa ggagccgagc 420
 actcaccgag gagcatgcac gagatagttt tgaaaacctc ctatttagtg tgtgccgttt 480
 cagagagcta actggaagat acccacagaa cataactgtt gttagctacg atttcaagga 540
 ggaacgtttt gcacaactgc acagaaccgc actcggattc ccggaag 587

<210> 30360
 <211> 252

30360
30361
30362

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-A11

<400> 30360

gcatacctaatt gttgttgccct atagttattg ggggttattg ttattcttgg ttggttaaga 60
ggtgagcttt atgaattatg gaacttcgga aaaagtccag cagaaaattt tgtcaatgaa 120
ccatgacaac aaaatccagg gaagatgtat tcttcagcgt agtagatagc ttgaggatgt 180
ttattaggag gcaccgtgta ttgcaagatg ttatgtttag cattatttca aagaaggatg 240
ctattgtggt tg 252

<210> 30361
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-A12

<400> 30361

cccacgcgtc cgcctgaagt ctgggacggt ggcgtcgggt tcgtgtcgaa ggaaatgatc 60
cagactcatt gcccagcgcc tgccgcccagc attcaggtat tgcatgtgg acctcctccc 120
atgaacaaag ccatggccgc gcacctggac ggccttggct acacgaagga gatgcagttc 180
cagttctaag cgttacattc tctctaccag taccagaata aacggcgggtg gaacaaagtc 240
acagtcacag agcgtcgtac ttactctacc tggatgaaag cagcagtaca gtaccacact 300
aatttgtatc ggtgtcggga cattgtaccg tgccgttctt ttgtatcgggt ttgtcactca 360
ctcactcact ccgcgagcca gcagcccagc acacgatcca tcgtgtcgtt ttggcaacgt 420
c 421

<210> 30362
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-A2

<400> 30362

ggctcggcag tcggcagtat taggggtgtt agtttgggtga tctctgagaa ccagggagat 60

cgatatgtgct gtaaagggtga agctagaact agaacgccgc tacatcagtc agtgccatta 120
ggcttagtac attcttcatg ctacagctgt ttcgtcaata aggaaactac gtgtatgac 180
tgccgacggc aggcgaaaat agcacgtagt acaattccat tcctacatat ccggtctggt 240
cttgctctgc atatttcttt ctctagaggg gatgttatgt aacgcaatgc aacaccccta 300
cctggcgtgg gtgtgggtgt ttggagggg 329

<210> 30363
<211> 242
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-A3

<400> 30363
accacacat acagacacat ttgcactcta tttgtgacag ttaaaataaa caaagacaaa 60
tatgggaaaa tagaaaaatt taaaaagggtc tggaagcctt aacgtcatalc aagtttagct 120
agcacaacca tgatacgtaa tggaacatgc tatatggacc gcaaaataaa gtccagtgt 180
ctacattctt aaacactatg accgtaaaaa ccatggtgat cccaaactta atctcgttgc 240
ga 242

<210> 30364
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-A4

<400> 30364
cccacgcgtc cgcttctctg aaggcggcta gggctttgac accgacatca ccggcaccgg 60
cgcgctgcgc atgatgcctt tcggcgccgg ccgcccgcac tgccccgccg ccacgctcgg 120
cgtgctccac atccagctca tgctcgccaa catggtgcgc gagttccgct ggctgcccgc 180
cgccggtgag ggccccccgg accccaccga gaccttcgca ttcaccgtcg tcattgagaa 240
cccgtccgg gcagccttcg tcgagcgggc cagactgag acggcgacaa ccgctgacg 300
agtgcgacc gaaagggtata aaaa 324

<210> 30365
 <211> 337
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-052-Q1-K1-A5

 <400> 30365

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 aacatttcgg ccctctggaa gctgcccggc atattggttt gcgagaacaa ccattatggt 120
 atgggaacag cggaatggag ggcagcgaag agtcctgctt actacaagcg tggcgactat 180
 gtgcctggat tgaaggttga tggaatggat gttcttgctg tgaagcaagc gtgcaaattt 240
 gcaaaagatc atgctgttgc aaatggccca attgtccttg agatggatac ctacaggtac 300
 catggccact ctatgtcaga tccaggaagc acttacc 337

<210> 30366
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-051-Q1-K1-H1

 <400> 30366

 cggacgcgtg ggcggaacgcg tggggcctcg ccgagctccg cgtgctcagc ctcaagggcg 60
 gcgcgtcca cgggcccgtc ccggacctct ccccgctcgc caacctcaag gcgctcttcc 120
 tcgcggggaa ccgcttctcg gggcccttcc cgccctcgct cgcctccctg cgccgcctcc 180
 gctccatcga cctctccggt aacaggctct ccggcgcgct cccgcccggc atcgaggccg 240
 ccttcccga cctcaccctc ctccgcctcg acgccaacca cttcagcggc accctcccgc 300
 cctggaacca gtcgtcgctc aagtgtcaa cgtctectac aacaactttt tcggggccag 360
 tgcccgtcac gcccgtcac tcgcatgtcg gcgcgcgcgc gttcgctggc aacccccgagc 420
 tctgcggc 428

<210> 30367
 <211> 277
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-052-Q1-K1-A6

<400> 30367

gccacgctga cgatcacacg ttcgatggag caaaagatgg acaaagaca gtacacgggg 60

tgcctgacca tggatgcacat ggctttctgc tcgtccctcg ccgtggcgct cgtacgcgtc 120

ctacgagtcg tggacctccc gtctctgccc gacatgacgt cgcagctcta cctctcctac 180

gtggtgcca tcggcgccct ctactcgctc tcgctctggt tctccaactg cgggtacatc 240

tacctatccg tatccttcat ccaaagctc aacatgc 277

<210> 30368

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-F3

<400> 30368

gaccacgcg tccggccacc cgtgcagtga cagccttacc aagagcatgt ccaagatgag 60

ttccaacctc aagggcgagg ctaacacttc tgcttacaac tcatcataac aatgataagt 120

tctcaaagac tatttcaaga cctattataa taccctaat ctgcacctta tgctgcccac 180

gattcgaccc atcatactaa cactcataat taaacttacc aattattgat gcacatttga 240

ctggacatgt tactatTTTT tgagtaccat atggaggacc agaggtttga tatcttgaac 300

gttctgtga acatcaa 317

<210> 30369

<211> 203

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-F4

<400> 30369

gacacaaaaa aaaaaaaaaa aaaaaaaaaat aaaataacta aaaaaaatat aaaaaaaaaa 60

ggcaggtact tactctttta cataaaaact ctacaatata ataaatcatt ctttatatac 120

tatttcatta cctcttatat tccccctttt atgtacatat ttcttcacat tttatgattt 180

cttcatacta accattttta tta 203

<210> 30370
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-051-Q1-K1-F5

 <400> 30370

 caagttccct ggccgcaaaa agattattga gagcagaaag tggggcttca ccaagttcag 60
 gcgtgccgac tacctgaagt acaagagtga gggtagaatt gttcctgatg gtgtcaacgc 120
 aaagctgctc ggtaaccatg gaagacttga gaagcgtgct cctgggaagg ctttcctcga 180
 ggccgttgct taagtccaat ctacagttgg aatgcgaatc cagacgtttt ggtttagcct 240
 atcttatttt gctttgtgca acatgaattt taagtgtatg gggattaca gtgccttgct 300
 tgaacctgct tatctcgtgc tgaacatcgg tatgcatgga agtacttata ttttgttctg 360
 ctaaaaatta aagtgttctt gcgactaaat atatcttctc aatctgggct tgtctcttta 420
 aaaaacaaaa aaagaaa 437

<210> 30371
 <211> 134
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-051-Q1-K1-F7

 <400> 30371

 gacacgcgtg cagtgcagc cttaccaaga ggatgtccaa gatgagtgcc aacctctatg 60
 cggcggctga cgcttctgct tacaactgat cataactatg atcagtgctt aaagactatt 120
 tcaaggcata ttat 134

<210> 30372
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-051-Q1-K1-F8

 <400> 30372

 cttacattag acaccgtgta agtgatggat ctaattactc tgggtgctag caaaatgctt 60
 cttttgctac caccacgga ggctgttggt ttttctactc aatctgtgat gtcttcttgc 120

atacatgtcc tactacatat tgaacattga taagctacaa cctaattggtt acaagtcacc 180
tatactgctg ttggatgctg gtattgagggc ccagatTTTTg gaattggaat tggtaaagcc 240
gaatttcagc gtttggatgc tcacggaatt cggaactgga aatccatccc aattccccctg 300
gtattcaact acacctgcac cccctccccct tcaataccaa gccccccacc tcggtattgc 360
tcagaattca attacacccg catccaaaca acaacattgg tattgcagat caattccatt 420
tccttcagat ttgg 434

<210> 30373
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-F9

<400> 30373

tcgggttttc tcgccgccgg cgccgtcggt tctctgtttc cggcgcacgc atgcctcgcc 60
agggactttc ggatcaagag gaagctggcg aagaagatgc gccagaaccg acccatcccc 120
tactggatcc gcatgcgcac cgacaacacc atcaggtaca acgcctagcg caagcactgg 180
cgccggacca agctcagctt ctgagcgctc agatcggtcg gctactgcat cagaattcta 240
aggtctctac ctttgctttg gttctatcaa agtctcttga ggttatgaaa gctagcgata 300
ctcctcagaa agcttttgtt aagattttga ttactactaag aagattgatg cttctatgcc 360
gtgctcaaga ttccatgctg cattggggata ct 392

<210> 30374
<211> 209
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-G10

<400> 30374

cggcacgaag ccggagttcg ggctggcccc gcagggggtc gagcaggcgc tcgtggccgg 60
ggaaaagtgc cggaaggagc ttgacgagat tgggttgccg ttggtttcgc caagaattgg 120
tacttcgcgg ttacagggc ccggaacagt ctagagtgtc cccctgtgtg ctgggtatcc 180
cctttgaagc tcttagttgc gaagttggc 209

<210> 30375
 <211> 631
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-051-Q1-K1-G11

 <400> 30375

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 tcgtagccat caaagtcata atcacaatca tgctgcatat agtaatcctc ttcttcttgg 120
 atttgttggg gttctggttc tgatatttgc agagaactac ttgagctgga accagcttga 180
 tcgctggaag aaccctgtca aacagtcggc tagccagtaa ttataccaat caaagcatta 240
 aaagaatgca cgaaaaggac aggcaaagtc cttctgtttc gccatccact atgttttagtc 300
 agtcgtgtgg acgatggact gattgccagt tagtagtacc ataaaaatat gaatagaaca 360
 aatgcatctt tatcataaag gccaaaacaa ctgccgcaat gcttatcgca atcctttgca 420
 ggataaaata aaatcacagg gaagccatct cctgacagtg ttcaccgatc cgctagatta 480
 atcgaagaaa cgaaatcagg tcaattatga ccggcattgc atcaatcaac ccaagaaaga 540
 ccccgatcg taccatattc gctaccaact catcncagc gaacacctcg gcagtcggca 600
 ctgcaattga cgcgtcaaaa tcccaaacc t 631

<210> 30376
 <211> 385
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-051-Q1-K1-G12

 <400> 30376

attcttcaat tcgtcactta gcttcactcg gcaaagaaaa gaggcaacga cgatggctgc 60
 ggcggcggcg atgatggtct ccggaggacg ggcggcgctg gtggtggcgg gcgtgctctg 120
 cgcggtggcg gccatggcgg cggcgcagca ggcgtcgaac gtgcgggcca cgtaccacct 180
 gtacaacccg gcgcagaacg ggtgggacct gaaccgctg agcgcgtact gcgccacgtg 240
 ggacgccgac aagccgctgt cgtggcggca gaagcacggc tggacggcct tctgcgggcc 300

cgccgggagc aagggccagg ccgcctgcgg caagtgcata aggggtgaaga accgtgagc 360
 gggcgcgccc atcgtggcga ggatc 385

<210> 30377
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-G2

<400> 30377

agttattcga taagatcgtc aattctggaa ggctaggaga ggatgaagct aggatatacg 60
 ttcacaaact tataaatgag gttgattatt gtcataagccg aggagtgtac catagagatc 120
 tgaagccaga gaattacttt ctggactcac atggaaccct taaagtttca gactttggcc 180
 taagtgcatt tgcaccacaa acaaaagagg atgggcttct gcataactgcc tgtggaactc 240
 caaactatgt agcacctgag gtgctcgctg ataaaagcta tgatgggatg gctgcagatg 300
 tatggtcctg tggcataatc ttgtttgttc ttatggccgg atacttacc tttgatgatg 360
 tcaatctgat gagactgtac aaactgatct gccatgcaac tttttcttgc ccaccatggt 420
 tttcttctgg agcaagga 438

<210> 30378
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-G3

<400> 30378

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 ggcaaatata ctcccagagc aaatggaact cattctggga aaaagccact ggttggttatt 120
 ggaataatga ctagcttttg gaggaaaaac taccgtgatg ctgtcaggaa atcatggctt 180
 ccgacagggt caatgttgaa gaaactagaa gaagaaaaag gcattgtagt acgttttgtt 240
 gttggaagaa gtgcaaatcg aggagatact tttgataggg agatcgatga cgaaaatagg 300
 agcaccaagg atttcttgat attggatgat catatagagt cagatgaaga gctttctaag 360
 aagacaaaaa gtttctttgc taatgcaaca aatacattcg atgctgcatt ttatgctaag 420

gtcaatgatg atttataca

439

<210> 30379
<211> 150
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-G4

<400> 30379

gaccgcacgc gtccgagcac tcctattcta acgcctattc tgtctacgtt tactaaactt 60
ctatctacca taccagtagg tctactattc tatgcagata aacatacaca tcaccatggg 120
gccttcctta taaatcccaa tcctcaacat 150

<210> 30380
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-G6

<400> 30380

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tgcaattata ctgcgcgagac aaatttaact cattctggga aaaagccact ggttggttatt 120
gcaataatga ctacctttgg gatgaaaaac taccctgata ctgtcaggaa atcatcgctt 180
cccacatggt caatgttcaa aaaactataa gaagaaaaat gcattctagt acatttccta 240
ctttgaagaa cctcaaatcc ttgacatact attgataggg agatcgatta caaaaatatg 300
agcaccaagg attacttgat tttggatgat catctagagc caaatcaata gctttctaaa 360
aaacaaaaaa ttgttttact aattcatcaa atacattcta ttctgcactc cattgctatg 420
tcaatgatca aatatacata 440

<210> 30381
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-G7

<400> 30381

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 gagtgcgcgcg accctgtcga gagaaacaga cagagcaaca tggcgccctgc attgtcattc 120
 ccgatcatcg acatggggct gctcgccggg gagagagaggc cggcggcgat ggagctgctg 180
 caagatgcgt gcgagaactg gggcttcttc gagattctga accacggcat ctcgacggag 240
 ctgatggacg aggtagagaa gctgaccaag gagcactaca agcgggtgcg cgagcagagg 300
 ttctctgagt tcgccagcaa gacgctcggg gacggccgcg acattgcgca gggcgtgaag 360
 gcggacaacc tggactggga gagcaccttc ttctgtccgc accttcggga gcccaaca 418

<210> 30382
 <211> 157
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-G8

<400> 30382

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 ccaggccttt taaccggcca actcgacttc gaaggccaac aaggaacccg gccgcgtaag 120
 aagttttttg tcattggcct tttcaccact tttgctt 157

<210> 30383
 <211> 342
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-G9

<400> 30383

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 gagccgcaga gggtagctgg cgaggctgct cagatacgtc tgaggcctgt gcagctgcgc 120
 ccgatcgata tcaagatcaa ccgccagggtg accttctgca aacgcctgaa cgggctgctg 180
 aataaggccc accagatctc cctgctctgc gacgcagagg tcgcgctcat cgtcttcttc 240
 actaagggga agctatacga gtactctagc cattccaaca tggaaggcat tcttgagcgt 300
 taccagcgtt actcatttga agaaaggga actcttaacc ca 342

<210> 30384

<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-F2

<400> 30384

cggacgcgtg ggcgccaacg ccttcgacaa caagatcgat gccaaagcgca cgctccgcga 60
gatcaagctg ctccgccaca tggaccacga gaatattgtt gcaataaggg atatcatacc 120
tcttgccgag agggctgcat tcaatgatgt gtatattgca tatgaattga tggatactga 180
tctgcatcaa attattcggtt caaatcaagc tttgtcagag gagcactgtc agtattttct 240
ttatcaaatt cttcgtgggt tgaagtatat acattcagca aatgttcttc accgtgactt 300
gaagcctagc aatcttcttt tgaatgcaaa ctgtgacctc aagatatgtg attttgggct 360
tgctcgcacc acctcagaaa ctgattttat gactgaatat gttgtcacia gatggatatag 420
agcaccagag cttt 434

<210> 30385
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-D8

<400> 30385

gaaaccgagg cccacgtcac ctggcccgaa ggacacacca atcgagctgg cgcaggagag 60
gacctacgat gaaaaggctg ggatcggtat gcccgatcta tagctgcgga gagttcactg 120
taatgtgacc aggacctgac gccctgtgct gtgctgtgct gtgcttcccg cgtaataacg 180
gtgtactagt taccttcttt gcagaaaatg ctttctagga atgagagcgg aaatatttct 240
accatttatt taaggctcctg tttggaaaca acccaacagt ttttaagaca ccagttttta 300
tcttttagct ttgagagacc aacttcttgt ttttatgaaa gtgggaatca aatttctata 360
aactgagcca taaactggtg gtttcttttag aaccacctca tttttataaa accggtttgt 420
t 421

<210> 30386
<211> 446
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-D9

<400> 30386

ttaagcaatc agacattaac tcgaccgtga caacaaacgc acacaaacag caccacatgt 60

ccaaaggcca catgacctat acatcagcat cctttgccta caggctgtcg cacatatcac 120

cgaaccctga ctcatctgac catgatcttc tctactgtcg aacggaggta gacaaggctg 180

ctcgcgcttc accatacata tactctggtg gccgaaggct tgtgtgcctc ggtgaacact 240

tagcctacct gcacatcaag gcaatctgga cacacctact gaggaacttt gagctcgagc 300

tggtatatcc atttcaagag aacgactgtc acgacatggt tgatggcatc aaggccgacg 360

tgatggttca ctacaagagg cggaagcttg acgtggacaa ctaagattgt ggccacaatc 420

tctacatgct tgcttcttgg cgattc 446

<210> 30387

<211> 385

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-051-Q1-K1-E1

<400> 30387

cggacgcgtg ggggaagctg taaatgtatc aaagtcagtg ctccattggt gacaaattat 60

gctcgagtc gtctctttga tgtaatactg cattcttctg ttggagacgt gtcaccagaa 120

cttgtggagc aatttangac cagacaaagg aactttgaca ccgaatctcg cgcagggtgca 180

gcagctaaag tgaagcaaaa tcaacatatg actgccatac ctggtctgag gatttcaocg 240

agagttaaag tttacaaacc attactatta gaagctatgt atgcaaattg attcataggc 300

gcaaagatga ttcgagcaaa gttatttcat aaatttctgt gggcttatgt caattctttg 360

ccaaattggt gcaatgcatt tggtt 385

<210> 30388

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-E10

<400> 30388

ccctcctgca cctatgggaa tgccccctag gattcctcca ccacctattg gggctgttca 60
ggctccgcca cctccagcac gagtggcaaa tggctctgcg ccaatgattc caccgccacc 120
taacttcact cccggagcac ccccaccgcg ccctccaatg caaggctttc ctgggcaaca 180
gcagtagttg actgcttagc aggcaatggt ccagtaattg gcagtcagta aaagtttcaa 240
gcttgtgttg actattgttt ttcggcttaa aactttgtat gttgtctggg actatactca 300
aacggcagct tggtggattt ttttgtatcc acatttatcc aagtgccttg tt 352

<210> 30389

<211> 226

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-E11

<400> 30389

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tgcatgtact acgattcata tcaactcttac agatctgtct atatcaacat tctgaccttt 120
caaatgaagg aacaatcatc atattggatt aatacatata cttaggctct gaagactcta 180
acgaaatcaa cgaatagaaa tacacttgga aatcatatct cccggt 226

<210> 30390

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-E12

<400> 30390

gtgtgcgcca acttgctgaa cgggctgac aacgcgaccc tggggacgcc gccaggacg 60
ccgtgctgca cgctgatcca ggggctggcg gacctggagg cggcggtgtg cctctgcacc 120
gtcctcaggg ccaacgtcct gggcatcaac ctcaacctgc ccatcaacct cagcctcctc 180
gtcaactact gcggcaggcg cgccccctcg ggcttccagt gcttctgact atcacacgcc 240
catcgatcga tcgatctgga ggctaaataa tttctccaag ctgctagtat acgtacgtac 300
gttgatatat atgatgtagt attatatata tgtccatgca tctcgtcgtc tatcgcatgt 360

tggtgtgtgtt gttgtgtgttt ttcatgatgc ctgtctctgt tataaatatc attattatt 419

<210> 30391
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-E3

<400> 30391

cacacaaaag gtgggggatg gataagatta tagatggatg gtgacacagc acagcagggc 60
acatggctag cctgctagcg tgcggcacc acacaacaca acacactgct cgccagaagc 120
gccccaggag gccaggggag gacacgacgc cgccatcagc catcatcatc atctcagact 180
cagagcatgc catggcacgc aactgactga ctgactcgaa acacacacag cgacgccgct 240
atactttatt aagctttata attagctagc tttctccggc cggcctgcag ggtggagcac 300
ctagctcact tgccgcagtt gcaggg 326

<210> 30392
<211> 312
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-E4

<400> 30392

ctccccacc ggttcgtgtt caggttctgg ttcgtgggcg agaggggaaga gatggcggcg 60
gcggacgttg agtaccgttg cttcgttggc ggctcgcct gggccaccga cgaccactcc 120
ctcaacaacg ccttcagcac ctacggcgag gtctcagat cgaagatcat cctggatcgg 180
gagacgcaga ggtcccgcgg cttcggcttc gtcaccttct ccacggagga cgcgatgcgc 240
agcgccatcg agggcatgaa cggcaaggag ctgcacggcc gcaacatcac cgtaaacgag 300
gcccagtccc gc 312

<210> 30393
<211> 460
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-051-Q1-K1-E5

<400> 30393

cgccacgcc gtccgattt gtatttctat cacagctgac gcattttgaa cccgtttcct 60
ttagatcgac gctgctgcta tcttgggtca catgctacat caatntgggc aagnccgacc 120
tgagtattgt ttcatttgaa gtnaaaaaat cggaacgcca ggtgggtctgt attttgggtct 180
taggttttcg gtattgtacc cgtcaacatt gtaatctctt cttgaacttg cagnttttcgc 240
tgtccctgaa gccgagtttt attatacaca taatagaccc gggatcggtg accgtttttta 300
aaataaaaaa taatgggtatt ctttaataagg tttatataag tgcaatagat aatatcttac 360
aaaagttttt tttattaaat attaaaaaag gcgcggcccc cttttttttt tcaatatttt 420
taattttttt tatttttttc caaaaaaatg gtcgttttat 460

<210> 30394

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-E6

<400> 30394

ctctggacaa gtgaaggaga agctgggcac gattgacccc tactttgtca agctcgggtga 60
ggccatggtc acctggatcg aggcctggga tgagctgaac ccgtcgaccc ctgccgccgc 120
aaatggcaag gccaaagtaga tgtgccatca cttcggcact ggagtgaaaa agaaagtatg 180
attgggtcct gcctaggccc catagatata gctctttttt gagaaggaag agagattaat 240
tcagcagcag cttttataaa ttccttggtg tcatgaagca ggtgggttctt ttgtagttga 300
tgaaagggat ttgtcgtcgc tatcgtttac ataattcaga caataatttt atattgtgta 360
attctgagaa tcaaagcact gtttgtgtta tagcatatct aagaatgagc atttgctgtt 420
gttt 424

<210> 30395

<211> 282

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-051-Q1-K1-E7

<400> 30395

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cacgccgggg cacatggcta gcctcctccc ntactgcacc cacacaacac aacacactgc 120

tcgccagaag cgccccatga ggccagtggg ggacactacg ccgccatcag ccatcatcat 180

tatctcatat tcatagcatg ccatggcacg caacttactg actgactcga aacacacaca 240

ttgactccgc tatactttat taagctttat aattagctaa at 282

<210> 30396

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-E8

<400> 30396

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gccttttgat catgttctag cttagcttgt tgcaagtgtg atttgaagcc tagtgcgctg 120

gggtttcttt tatggccatt tctctctcat tctctacat tcatgcgtgg gtcattggata 180

ggcatgagaa aagattgtac gtacgtatct tgtgttcttg ttcccaatga atggatggaa 240

ccaaacgtgt gtccctttcc aaaatacaat caaaaaaatt atctttaccg ttacttgaaa 300

actaacaaat ttttttttga attcaaactg tgaactcaag aaattttgtt tttttggctt 360

ggtggggccc cctttataaa attctttttt tacctactat ttttttccca agatagtttt 420

tt 422

<210> 30397

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-E9

<400> 30397

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aatactctgc tcgatgctgc ttgcacgaga ctgcttggtg accagatcat tattgcaaag 120

ccggcacgag gtccaagaag agatgcccaa tctggtggcg ggatggacga ggattagttc 180

gattatagtt gttatctttg tatcacgtat gtgaagcttc agagcagata tcatacttta 240
tcttggctct tggttctagt aaaagtttgg ttgcctggag ttcactacat gaacgtctgc 300
accgttgcgc atatatgaca taggcaatcc gtatgctacc tgctggtgta ttgcagttcg 360
gctgtattac atgattcatt acaggggccg ctccttcagt tcatcacacc 410

<210> 30398
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-F1

<400> 30398

gaccacgcg tccgcggacg cgtgggcgga cgcgtgggag gacgcgtggg tagagactgg 60
ggaggccgta gcgttcaaag aatacctgca ggagtacgag aacaccatat gcggacgcca 120
ccccatcagc gtcttccttc acatgttgaa acattgctcg acaaaaatta agataggctt 180
tgtccgctac gagcagtcca gccagtgcaa gaacatgagg gatagcagcg tgagctatgc 240
atccgcagca gcgaaggttg ctggtgcatc cggggaagaa gataaacaag actgagcgag 300
ctacagctct ggttgatata ctatatataa accgccaaac cttggtgctg aatgtgtgac 360
tggtttccca taagaaaaag aacatgtgat ttggtaaaac attttcttct tcagtaaaaa 420
taataaata 429

<210> 30399
<211> 206
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-F10

<400> 30399

tctttggaaa aaaaaaaaaa aaaaaacaaa aaagaaaaat ttaaaaaaag agagagaaaa 60
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa cgtacaaacc tttaaatcac aaaataaaac cacataaaaa tataacccaa 180
aaaattaaaa aaattatcta cacatt 206

<210> 30400
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-F11

<400> 30400

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 gcgacgcagc gatgccgtat cacagaacct tccacatcaa gagagaactg gcgaataaga 120
 tgcgccagaa ccgccccatc cgctactgga tccgcatgcg cacggacaac accatcaggt 180
 acaacgccaa gctcaggcac tggcgccgca ccaagctcgg cttctgagcg cgcggatcgg 240
 ccggctcctg cgtcagaatt ctacggtctc tacctttact ttggttttat cgatgtctct 300
 tgcgtttctg taagctagca aacaattcca gaaaagcttt gttaagattt tgatgacgct 360
 aaaaagattg atgctactat gctgtactca agattccatg ctgcattgcg atgcttaatt 420
 aaaaaacctt tgttacctt 439

<210> 30401
 <211> 448
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-F12

<400> 30401

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 tgttgactag cgaccaggga ggtcaaacaa gaggcaacga gaacgaacgc caccaccgcg 120
 ctccggtcgc tttgcttggg tccggccact gcaccgccat tgttgatctg ttctccttct 180
 ccttgaggga gaaagaaaag gggagaggaa tgatggggcg cacgagcgtg ccggcggccg 240
 tggcggccct gctggtgctg gcggcgtgcg cggctctgcc ggcgaggacg gcggcgaaca 300
 agatcagcat caactggaag cccaacgtga actacaccga ctggctgaag cagcacagcc 360
 ccttctacaa ggacgactgg ctggtgttct actacacggc tgggcaggct gacgtggtgc 420
 atgtggacga ggtgggctac aacaagtg 448

<210> 30402
 <211> 321

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-051-Q1-K1-D7

 <400> 30402

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 tgggcttcga cgcgctgta ctccggtggt tttatttttag aaatcagcag tgaagcaaaa 120
 taattgtctt cggatatgtt aaactggctg agccattcaa aatccacgaa gcgcgagtga 180
 ggtgcatctg aatgtggttg tggttggcga atggggacga tgaaaacgct tacggccctg 240
 ctgtagcaag ttttggcata tattccttgt ttctaccgag agaaaaatta aataattatt 300
 aacacataga caattataat g 321

<210> 30403
 <211> 234
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-051-Q1-K1-C11

 <400> 30403

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 gtcactgtca ccatggttta ccaatacctg aacgacgtca tcggctacta cgcgaaactt 120
 accctccagc aattctagga tctcaacgag caaccaggtg ttatccaagt tgtgccaatc 180
 caaacttacc agctacatgg cctcaaate tgcactcacc atggcacgac acac 234

<210> 30404
 <211> 587
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-051-Q1-K1-C12

 <400> 30404

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 gtcggactcg gaggagcacc acttcgaatc gaaggccgac gctggggcgt ccaagaccta 120
 cccgcagcag gctggcaccg tccgtaagaa cggcttcacg gtcacaaaga accgtccctg 180
 caaggttgtg gaggtttcta cctccaagac tggttaagcat ggccacgcca aatgccactt 240

tgtcgccata gacatattca atgggaaaaa gcttgaagat attgttcctt catcacacaa 300
 ctgtgacatt ccgcatgtga accgtactga gtatcagctg attgatattt ctgaggatgg 360
 atttgtgagc cttcttactt cagatggcaa cactaaggat gatcttagac tcccaactga 420
 tgagactctt gtggcccaga ttaaggaagg gttcgaaagc gggaaggatc ttggtgtgac 480
 tgtccagtct gcgatggggg aggagcagat ctgcgcgttg aaggatgttg gcccgaagta 540
 accttcttgg ctttggagac ggaaccctac tgtatctcaa cttaaatt 587

<210> 30405
 <211> 440
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-051-Q1-K1-C2

<400> 30405

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 agttgcggat gtcactgggt ctaccagtgg cagccactgt gaactgtgct gataaactg 120
 gagccaagaa cctttacatc atttctgtga agggaatcaa ggggcgcctt aacaggcttc 180
 cttctgcctg tgttggtgac atggttatgg caactgtgaa gaagggaaag cctgacctta 240
 ggaagaaggt gatgccagct gtcattgtga ggcagcgcaa gccatggcgc cgaaaggatg 300
 gtgtctacat gtactttgaa gacaatgctg gagtgattgt gaacccaaag ggagagatga 360
 aaggctctgc catcactgga cccatcggaagg agtagtgtgc tgatctgtgg cctangattg 420
 ccagcgcggc aaatgcgatt 440

<210> 30406
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-C4

<400> 30406

cagacgcgtg aacaggctca tccacatcaa ccacggcata tgctggtgct gctgatgcgg 60
 aggcgtgatt ctagggtctg aatgaattta caaacattgt actacgtctt ttgcagcact 120

caactgagac ataattgccca tactttgact cttatgtgac tttcgtcgag aatggactgc 180
 tggattatct ttttctgtgt tgacgtaacg aggtcgataa gaaactgttt tgaaacctga 240
 gtggcaaact caagtgttgc atagacaagg acataaagta atgccacccg aactatgcac 300
 cttgcgtcct tgccccggctt ctaacaattg atgccccccc ttgcattttt gtttgactgc 360
 ctatttttcc tgccccccgt ttggttgggg caatgaggcg tagtggtcga taataaaacc 420
 ca 422

<210> 30407
 <211> 328
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-C5

<400> 30407

gcagcagccc attgcctgcc tttcggctta ccctctctct ctctctctca cacacacaca 60
 gaaccactca cactgccggt tggtttccct tccgttgtgg ttggtgcgta cttagtggcg 120
 gccggccatg gcgcggagga ggggcttctt ggcggtggtg ccgtcggcgt ggctgccggc 180
 ggtgctcctg tgcttggcag gcgcagcgtc gggcgagccg ctgccgcaat actacaatgc 240
 catcttcagc tttggcgact cctttttcga cacgggcaac ttcgtcatta tcaactcggg 300
 caagctgccc aacatgcccc agttcccg 328

<210> 30408
 <211> 440
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-C6

<400> 30408

gggagggaga gaaaaaccca ggccccccga tctcctctc cactccgat cgcccagcg 60
 atcgcgagc ttccccgttc cctccccgcc ccccgcgacg ccgcgacgcc atggagccgc 120
 cgcacgccga gcaggccgtc gccgctgtag cagcaggagg agagggcggc actgcaagcc 180
 cgggcaccgg cctcgaaggg ccggtgctta ggcgggggct ggacggcggt ggggaagggg 240
 aggacgggga gctgggggcg gggcaggagg cggacgcacg gctaccggag cggactggcg 300

aggcggactg tggctactac cttcgcacgg ggcgctgcgg cttcggggag cgttgccgct 360
acaaccatcc ccgcgatcgt ggtggcactg agtttggtgg aggtaccaag aatggtgcag 420
cacaagactt ttcaaaacga 440

<210> 30409
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-C7

<400> 30409

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gaaccctatt ccttggccga gccgccttgc gggatcgctc ccgcgcgcgc gcagctctgc 120
ctcgacctt ttagtctccg tccgacaccg cttggatcag agatggaatc accaccctc 180
acagctgaag caattgcttt taccgagaaa aagatggaca tgactttgga ggatataatc 240
aagatgtcaa agaaaaaaaa tcctggaagc aagaaccccc ctaggcaggc gatcaaaaag 300
cgtccattcc agaatg 316

<210> 30410
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-C8

<400> 30410

cccacgcgtc cgactagttc tagatcgca gccgcccttt tttttttttt ttgcaccacg 60
ggttacgtta gattcttata gagtagtaga gatcgaataa atattatatg agccaaaactt 120
gtatacgcac atagacacgg cacggccatg acaactatat ataatatggg cacaagagct 180
ttatttattt aatttacaca cgacgatgat gagcgaattg aaataaagga taatggagga 240
tgagcaggt acgtagctag cagtagctcc cctgctatta ttcgaattaa atctgacgca 300
agtaaacacc gatagcatcg acgagcctgg ttcccgcgcg cgcatagaat cccacgatgc 360
tgctgccgat gggcgccgtg acggagaaaac gcgtcccgtt ctcgacaccc caggggcccc 420
aggttctgct gctggtga 438

<210> 30411
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-C9

<400> 30411

acgtccacgc gcgtcgtgac gcggtgctga acgtaccct cgctccttca ctctcatgcc 60
ggcggccttgc tttactgata gacattgtca agcgccgacc gaagcccgac atggctacca 120
agcttttctaa cgccactgcc agcgatccga cggtcgcact tcaagaacga atcggacaca 180
gcactctggc tctatcaacc gtctgcgacc aaagctcacg gacgccttca cgattctatc 240
tccgatcatg cggcaattcc ctcccgga ca tactgggggg gtgttggtcg caccgcgcaa 300
gctaaagctc gccactgcaa tgggcatggc ccgcggccgg ttaaagtgcg cgggtgcata 360
gtggatttgc tgaagaatgc tgagagtaac actgatgtga aaggcttggg tgtggacaac 420
ctctataatt cacaca 436

<210> 30412
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-D1

<400> 30412

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gaggatttga gcatcggaag aactggatct tcttcatacg attacagaag ttcttcttga 120
ggaggaacag tcattcttga tgattgcaat ttccatgagt cagtacatct ggacagtttt 180
gatattgaca gaactttgac ttttaataccg cccgatggag aatttcctgt aatgaactac 240
cgtatgaccc aagaatttaa gccaccattc cgtgtaaccg cactaattga agaagctgga 300
ccagcgaggg ctgaagttct actgaaaata agagctgact tctccgcgag tgccactgct 360
aacacaatcg tagtacaat gccagtgcct gcatacacia tgagagcgag ttt 413

<210> 30413
<211> 378
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-D11

<400> 30413

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ggcgggtgtac ttctccagcg gcgatgacta cgcgcttcaa gaagaaccgc aagaagcgcg 120

gccacgtgtt cgccgggcac tgccgcacgc gcaagcaccg gaagcatccc ggatgtcgcg 180

gtaacgccgg tggcatgcac caccaccgta tctcttctga caagtaccat cccggctact 240

tcggttaaggt cggcatgcgc tacttttcaca agctcctgaa caagttctac tgtcccgcg 300

tcaacatcga gcgcctctgg tcgatgggtgc ccgccgacaa ggccggcctaa gccggcagcg 360

acaaagcccc gcagatcg 378

<210> 30414

<211> 402

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-051-Q1-K1-D2

<400> 30414

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ggaggggctt cgcgtcgag gccgccaagc ccaccgggaa ggagatcaag gttccaaagg 120

ctctgttttg cggcacaggc aactatgccg gtgcactgtt cctcacagca gctaaatcta 180

atgcattgga caaagttgaa tctgagatta aagctattgt agaggcttcc aagaagagcc 240

cgttgttttc tcaattcata aaggacttgt cagttccaaa agcgaccagn gtgaaggcta 300

tagccgaaat atttgctgac gctgggtttt cagatgttac aaagaatttc ttggctgtcc 360

tggcggacaa tggcaggctg aaatatattg aacgcattgc gg 402

<210> 30415

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-D3

<400> 30415

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 atgatcaagc ccgacggcgt ccagcggggc ctgatcgggg acatcatcag tcgcttcgag 180
 aagaaagggg tctacctcaa ggggatgaag ttcatgaacg tggagaggtc cttcgcgag 240
 cagcactacg ctgacctttc cgacaagcct ttcttccccg ggttgggtgga gtacatcatt 300
 tccggccccg tgggtggcgat ggtgtgggag gggaaggacg tcgtgttgac tggccgcagg 360
 atcattgggg ccaccaggcc ttggggaggca gccccggta ccattcgtgg ggactacgcc 420
 gtgg 424

<210> 30416
 <211> 229
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-051-Q1-K1-D4
 <400> 30416

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 tgggtggtttc gtcctccatc ggtcctgata ttgtatctat agtggtcagc ttgcgttcac 120
 tacattcgat tcgctgcagc ttgtattgta tgtagccttt ttgacgtgta gcacgcttgg 180
 tgttgagagc aatgtacacc tgtactgttg ggtcgggtgt gattataca 229

<210> 30417
 <211> 416
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-051-Q1-K1-D5
 <400> 30417

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 ggaaaagcct ccaagaaaat ggaggtggaa ctagcgaatg gaggtggaac tagcagaaaa 120
 ttcattattac agaaagcact gccgacggat gatgtgaaca gggcacaagc agataatatt 180
 taggacactt ttagaaggct tcaatcaaac catcttactt agaaaggaga agctgagggtg 240
 ttgtccaagg atgggtatcg atctttcatg gggttcaacc ggccgctgct ggacccttca 300

tctaatatgg acagtgaaag tcattctagtg caacggagga ggcaataagg aaccgaagaa 360
gacatcaagg tttctcagaa ctggttcaaa tgacaactcg ttagccatgc ttgatt 416

<210> 30418
<211> 205
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-D6

<400> 30418

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gcggattttt tttccacca caccttgtct gcgcgcgtcg ttgctgcaac gatagccttc 120
cccgcctgc tcttcaatct gcggaacctc ttctacctgg gcgcctacca agcagtcac 180
aacaacagcg acgttcgggg ccttt 205

<210> 30419
<211> 270
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-B9

<400> 30419

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gctgccgtca ggctaattggc gccttttggg tttaacgagc gacgccgacg ggcgccgtcc 120
gccgcgcgac gtggccggtg tgctttggtg cggggctccg ggcgatccgc cgtccgcgtg 180
tggccatgat ccgctcaggg aacgcttggc ctatcgacgg taggcgatcg gagcgcacgg 240
gcgccggcgc gcgtcggttct ccgttcacgc 270

<210> 30420
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-A2

<400> 30420

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ggcgggggtg agcggatcga gatggcgccc tcccatgttg agtaccgctg cttcgtcggc 120
ggcctcgcct gggccacgga cgaccactcc cttcacaacg ccttcagcac ctacagcgag 180
gtcctcgagt ccaagattat cctcgatcgg gagacgcaaa ggtcccgcgg cttcggcttc 240
gtcaccttct ccacggagga agcgatgcgg aacgccatcg agggcatgaa cggcaaggag 300
ctggacggcc gcaacatcac c 321

<210> 30421
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-A3

<400> 30421

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tcgacgcaa ggccgggatc gctctgaacg accacttcgt caagcttgtc tcgtggtacg 120
acaacgagtg gggctacagc aaccgcgtcg tcgacctgat ccgccacatg ttcaagaccc 180
agtagagggt tttccccctg cttctcatgg atggttgctg cttgtgtatg ccgagaataa 240
atgtggatgt cgccaggttc atgctgagtc tggacatgtt ttgcactttt gtttccattt 300
ctgccatcat ctgtggcaga tccgctcgct aatatgggac ctgagattag ctttt 355

<210> 30422
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-A4

<400> 30422

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gggcgttttg ccaggccatg ttgccacgat tgcagagctc aagcctggtg ttctctcagt 120
acatgagggg aacgatgtga ccaagtactt tgtgagcagt ggatttgctt tcgtccatgc 180
aaactccatt gctgatattg tggctgttga ggctgtccct gtggatcaga tcgaccagc 240
ttttgttcag aagggctctg ctgaattcac tgccaagctt ggttcggcct ctactgacct 300
ggagaaggct gaggctcaga tcggtgtcga tgttcacagt gcgctcaatg ctgcattgac 360

cggttaattg gtgtcatctt aaattgtctg tcttttagat tgagtttaac tttgcaaadc 420
ctaaataaat tatagtccat 440

<210> 30423
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-A5

<400> 30423

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attatcttaa catgcctcat gattctgaca gtttccgtca acctgacatg caccatggaa 120
tggaggttcg ccttggtttg tccaagggac ctatctgtcc tagcttcaat tgaggcagta 180
atgtaattct gctgcaagtt cacctctcag tccagtactt cagtcaatag accatattaa 240
gatggtgaaa tatgaaaact ggtagcttgc atctgttcaa tgttatgttt taatcaacgc 300
tgaatttaat atttgtcaag tttgaactta aaaaatttaa aaaatatttt tttataaat 360

<210> 30424
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-A6

<400> 30424

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ggctgctcca ggacttcttc aacggcaagg agctgtgcaa gaacatcaac cccgatgagg 120
ctgtcgccta tgggtgctgt gtccaggctg ccacctctgag cgggtgagggc aatgagaagg 180
tgcaggacct gcttctgctg gacgtcacc ctctgtccct gggctctggag actgctggag 240
gagttatgac agtgctgatc ccgaggaaca ccaccatccc caccaagaag gagcaggtat 300
tctccaccta ctcggaaca cagcccgggtg tctgatcca ggtctacgag ggtgagagga 360
cccggacacg cgacaacaac ctgctgggca agttcgagct ctccggcatc ccccctgcac 420
cccgtggtgt g 431

<210> 30425
 <211> 389
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-A8

<400> 30425

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 catttgctcc catggacccc cacagcttcg gcacctgcga ctactggagg tcgcacccga 120
 tggagatctg gtcggcggtc ggcgcccggt tcccgagcac gtcacgtcgc atggggccact 180
 tcttcggcgc ggcggcgggc aacgtgggcg gggcggacgt gatgagcatc caggacgcgg 240
 tgggcaacac gcgggcggac ggcacgggcg cgctgctgcg cgagggcgcc gccgcgctgc 300
 tcaactccat gacccgcgcc gggttccccct acaccacgga gcaggtccgc gacgcgttcg 360
 cggaggcggc ggcgcccggt tccgacggc 389

<210> 30426
 <211> 493
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-A9

<400> 30426

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 ggtcgtgggt gagcggatcg agatggcggc gtcggatggt gaggaccgct gcttcgtcgg 120
 cggcctcgcc tgggccacgg acgaccactc cctccacaac gccttcagca cctacggcga 180
 ggtcctcgag tccaagatta tcctcgatcg ggagacgcag aggtcccgcg gcttcggctt 240
 cgtcaccttc tccacggagg aggcgatgcg gaacgccatc gagggcatga acggcaagga 300
 gctggacggc cgcaacatca ccgtcaacga ggcccagtcg cgcggcggcc gtggaggcgg 360
 cggcggcggc tacggtggtg gccgtggagg cggcggctac ggcggtggcg ggcgccgtga 420
 tggcggctgc ggctacggcg gtggcccgcg cggctacggt ggccgcgggtg gctaccgtgg 480
 tggtggtggc ggc 493

<210> 30427
 <211> 425

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-051-Q1-K1-B1

 <400> 30427

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 gacgtaatgg gagagggtga tataaccctt cttgtccgac gacaggtgaa aatcattggc 120
 tcatatggcg caagggccag gcaagacctt cctcagatag tgaagctcgc ggagagtggc 180
 gccttcaatc tccagaacac catatcaagg aaatgcaaat tcgaggaggc gaatggcgcc 240
 tatgaggatc tcaatcaggg caagatcgta agacgagctg tggttgagat catgtagtga 300
 tgacggacaa ggtaatcaat cctgtggttc caagtctggg tcacacaaca aataaagttt 360
 gcgtgctctt tcacagcatn gtcaaatct gtagatgacc aaactgcatt gtgtgtgtgt 420
 gtgac 425

<210> 30428
 <211> 327
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-051-Q1-K1-B10

 <400> 30428

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 gacgtgttgc ggctgcattg gagaacccaa acctactgga catggtcgaa gagtgttat 120
 caccaacatt tgattgaggc ctgaatatca atatatcggg gtgacatggg gttgatgttc 180
 aggagccaca catgctcatt gccaatggag ttcactcctg tctttcgaga accaaaatgc 240
 cttgggtgtt aagtgacgtg ttgcatgatt tttttcctcc gccccgttca gttattatat 300
 atgctactat ggcgctaccc tttttgg 327

<210> 30429
 <211> 516
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-051-Q1-K1-B12

<400> 30429

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ggaggtctct tttaacctga gaagcaaaag gaaaattgac cggctatgct gggcccgcaa 120

gaagaagaga acatccctcg tgccatcttc aacaagcatg ccagcatcgc cgagtgaagt 180

tcttgccgcg gatttctaac tgcccttcgt tgaagagcaa gcctgccctg tataataatt 240

tcatggtaca ttctttacat gcattgggtg gaaacgattc tttcacattg ctcatcaatg 300

gtgttgtaac ctgcaacatt ctttatttgg tttcataggg cattcagtca gtttacgggt 360

ggtagtttgt cggaacatgt acccaatttt tctgatgaaa caaatgtttg agcttcaaaa 420

aaaaaaaaa taaaaaaaaa aaaaaaatta aaataaataa aaaaataatt aaaaaaaaaa 480

taaaaaaaaa taaaaaaaaa aaaaaaaaag gggggg 516

<210> 30430

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-B3

<400> 30430

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acaaactgga attggcacgt ccattgccat agctgggtgtt gctatgtact cttacattaa 120

ggctaagatt gaagaagaga aaaagaaaaa gagcgcata ctgctgtgaa taatattatc 180

gggaccttac tgggacacaa catcgtagac aattacgacc tacttctata ccttgtttag 240

atctcatctt gagtcattcg gaccattggt tagatcccag actgggtgatt aaaagtctgc 300

<210> 30431

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-B4

<400> 30431

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gcaccccgac atcggcatct cgtccaaggc catgtccatc atgaactcct tcatcaacga 120

catcttcgag aagctcgcgg ccgagtcgcg caagctggcg cgctacaaca agaagcccac 180
catcacctcc cgcgagatcc agacctcggt gcgcctcgtc ctccccggcg agctcgccaa 240
gcacgccgtc tccgagggca ctaaggccgt tacgaagttc acctcgtctt aggatccttg 300
taatggcat gtgggcgctg gcggtaggcg tggctcagtt tatgtgatac tgctagcgat 360
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gttccacatc 430

<210> 30432
<211> 432
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-051-Q1-K1-B5

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atttggtgga acttcacata gtantgttgg aatggaatcg tcttccagtt gaattcgttg 120
ggatttcttg actcttgaaa tgtgttatat attactgaat ataaagggtg aagagggacg 180
cggaatggaa gacctgtgtc gctgccacag actgcagctg gaagcagatc gcggagccgg 240
tgatgtgcct gtacagggag acgacggacg gctcaaccat cgaggacagg gagacggtgc 300
tcgtgtggaa ctactaggac gcggaccccg actttgggtc gtgccaggcc aaggagctcg 360
tcgaccacct tgagagcgtg ctgcggaacg agcctttgtc tgtgaaaacc acgcctcact 420
catttgaagt ga 432

<210> 30433
<211> 301
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-B6

<400> 30433
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gtgaggaaga agaagggtcaa gccacttcag ttcgtcatcg gactcgagag ggcgcccaac 120
attctaattg caacatacat gaatgttatg gcctcgacct gttggttgat ggaataccct 180

tgttagagcag ggctgcgact atgactgagt accttcaagc ttatgaactt tattaggatt 240
actagtatac tgtatggact tgttggcatg aatttgtaac tcctttaaat attaattggt 300
t 301

<210> 30434
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-B8

<400> 30434

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gcacacgcag ccccgccgccc atcccgattc ctccgtccgc tccccctccc cggctccccgc 180
gcccgcagcc cccgcgcgca tcccgattcc tccgcccgt tccccctccc gcgcccgcgg 240
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ggaggacgag atcgagatgg ccgtgagcgc gaagaagcaa aaggcggcgc caccggcgaa 360
ggccgtgccg acgtccaaga aggacgcaa ggaggacgcc aagtccaaga agcagccgcc 420
ccccaagaag gctgagaaca gca 443

<210> 30435
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-A12

<400> 30435

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tttgatcagt gactggctgc tgctccatag aagatgaacg gagagaagga tgatgaaggg 180
ctttggcaat cgccgctgca actgcaaccc atgccatgcc ggcttagtga ttgggtataa 240
tttggcttgg cagcagccag cattattatg tgctgatctg ttatctttta ctagtttggt 300
cgtccgatat ctttctttct ttttcccccc ttttcgactc tgtactgaaa ctgctgagag 360

attcgcagta ttgttgatc gtattcatat gctactgtt

399

<210> 30436

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-G5

<400> 30436

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gatgcaacat tctggagtag gctaatacag ccagatcctg cagatattat tcaggaaact 120
ttggcgcttc gtgctgcacg taataaaaag agttatgttg aagatcccca gtttgacaaa 180
aataataaca ggaaaagacg tgcagttgaa gcacaagaaa agccaaggag gcgttctggc 240
agaacagtgg aaacagttaa ttcagtacca ttggttgatg gagcagtagc tcaagtacga 300
gagtggcttt ttggtaatat tccaaagaag gatgcttctc gttttgtacg agcgggttaaa 360
aaattttggg aatgcaaccc aaattgactt a 391

<210> 30437

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-G6

<400> 30437

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gggcggaatc tacggcgagg acggtgaagg atgtcaaccc gcacgagttc gtcaaggcct 120
actccgcca cctcaagcgc tccggcaaga tggagctccc tgagtgggtt gacattgtga 180
agactgcgag gttcaaggag ctctctcctt atgacacctga ctggtactac atcagggctg 240
catccattgc aaggaagatc tacctaaggc aaggcatcgg tgtgggtggc tttcagaaga 300
tctacggtgg ccgccagagg aatggctccc gccaccaca cttctgcaag agcagtgggtg 360
ctgttgacg caacatcctg cagcagctgc agattatggg catcatcgat gtccatccca 420
agggtggacg cc 432

<210> 30438
<211> 443
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-050-Q1-K1-G7

<400> 30438

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tcaaatacat aaacttaaat ttcccaatag tagttccttt tttattatat ctgagagcat 180
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gattatatag cactagctag gaactaccat acaattttca tatcagaaat tccagcgatg 300
agtatgaaga ttcgtgacaa ggcaagaagg tttatcactc ttatcgatga gttgtacaac 360
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gangaaggac ctctttttga ttt 443

<210> 30439
<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-050-Q1-K1-G8

<400> 30439

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gcgctcaggg tcagggaggc gaagatgatc gaggtggtgc tgaacgaccg cctggggaag 120
aaggtgcggg tgaagtgcaa cgaggacgac accatcggcg acctcaagaa gctggtggcg 180
gcgcagacgg ggacgcgccc cgagaagatc cgcattcaga agtggtacaa catctacaag 240
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aactaggcgc cctgacccca accgtgccct gatgtaaggt taatccgaat tctgaagtca 360
tgggtgcgct tccagtcaca gcgtctntag ctaacaagct cgcatacata taggcaactt 420
gagtgaagcta tgtag 435

<210> 30440
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-H1

<400> 30440

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ccccacgccc agctccccgt gctgctccag tgaggaaccc gccacagcca gcacgccagg 180
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ccattgctca aggtatggcg tttggcacgg gtagtgccat ggcacacagg gctgttgatg 300
ctgtattagg tccccggacc attcagcatg agactgttgc ctcagaagct gctgctgctg 360
ccctgcccc tccagtgatg aatgctgatg cttgcagcat ccattctaag gctttccaag 420
attgtctcaa caactatggc 440

<210> 30441
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-H10

<400> 30441

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gttcgcgccc ctgaaattgt ccgaccgctt ggcgactcgg gtcggacgga tgccgggtcga 120
cgtcgaggcg gcgatggccc cgccccaggc ggcacgcggc tgcagctcgt cgtcgatagg 180
cagggacagc gacgagtgtt cgccgccggg gaaggaggag gaaggggagg gggaggtgca 240
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gctgcctatt cggcgcagca tatccaaatt ctacaatgtt aaatccaaat catttgtgtg 360
cctgaaagaa gctataacat tttcaggctc tgcataagac attactaagt cagagaatgc 420
atactccaga taacggaaga atc 443

<210> 30442
<211> 356

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-050-Q1-K1-H12

 <400> 30442

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 gcgtccacct cgacgtgccg cgcggggccg tcatgggcgt catcggtccc agcggcagcg 180
 gcaagtccac gctgctccgc gcgtcaacc gcctctggga gcccgcgccc ggcgccgtgc 240
 tcctcgacgg cgccgacatc tgcgccctcg acgtcctcgc cctgcgccgc aaggtcggca 300
 tgctcttaca gctccccgcc atgttcgacg gaaccttggc tgacaacgta cgatac 356

<210> 30443
 <211> 321
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-050-Q1-K1-H2

 <400> 30443

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 gctggagtct cttgaagatt cagacagcaa aaaagaagat tagtccgaac ggcgaaccgt 120
 cacagccatt gttcttgaag ggacaaagtc ttaatccttg tatgaggttt acatatggat 180
 tttccctgcc acatgcacac cgattcagtg cttggatggc gagggttttg acataggagt 240
 gttgtcaaag ctttagagtg catctttcgg tcagggtgaa cagcctttcg gtcattgaga 300
 catataaacg aattagctat t 321

<210> 30444
 <211> 97
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-050-Q1-K1-H3

 <400> 30444

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 aaccaaacat aagggtcgga tttttcaaca atttaac 97

<210> 30445
 <211> 360
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-H4

<400> 30445

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 aacggaggct ctcccacatg cataggagta actgccaggg ttccttcctg ggggtggaagt 120
 gtggaactga gcttgaatgt taagaagtgt tcctttgttc tcttcctctc ttgatgactc 180
 tgtaaatagc tatgtcaatc tggttaagtt tggtttggtt gcatgtgcct gtgttcgctg 240
 ccctttggat agaatgcaaa ttaaagatgt tgctattgca caaaagaaac caactttacc 300
 aaaaactgaa gcataataaa gttttacagt ttttgagcta ataaaaaaaa agggcgccct 360

<210> 30446
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-H6

<400> 30446

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 cggggaacca gctgcgccac gccacacccg ggctcggcat cgccatcgtc gccttcggga 180
 tctacctcgt cggcgaggcc gcctacaacc gcctctaccg cccctccggc gacaaccacc 240
 actagatcgc cggcaggatc cgtgactcgg tcaagaagct ggagccaact ttaccaagca 300
 ctggtgctgt tgatgttttt acagttttga gtcataagg tcagccatga ccatattgta 360
 atctgtgacc aggtagactt gcccactggt ccgtccaact a 401

<210> 30447
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-H7

<400> 30447

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gtgaggttct tcggaattcac acgaaaaaca tgaagcttgc tgaagatgtt gacttggagc 120

tcattgcgaa ggatactcat ggttatgttg gtgctgatct tgctgccctt tgtactgaag 180

ctgctcttca atgcattcgt gagaagatgg atattataga tcttgaggat gagacaatag 240

atgctgagat actgaactct atggctgttt caaatgatca tttcaagact gcacttggga 300

caagcaaccc atctgctctg cgtgaaactg ttgttgaagt gccaaatgtc tcttgggaag 360

atattggtgg cctggaaaat gtaagagggg gctacaagag actgttcaat atccagtggg 420

gcattcagag aaatt 435

<210> 30448

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-H8

<400> 30448

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gttttgtcaa gaccacaag agcaatgc atttcaagcg tttccagggtg aagttcaaga 120

gaaggcgcgc tggcaagaca gactacaggg ccaggataag gctgattaac caagacaaaa 180

acaagtacaa tacacccaaa tacagatttg ttgtgcgatt taccaacaag gacatcacag 240

cacaaatcat ctctgctagt atagcacgtg atatggttct tgcttctgct tactcgcatg 300

agttgccacg atatggtctt gaagttgggc tgaccaacta tgcagctgcc tactgcactg 360

gccttctgtt ggctcgcgtg gtgctcaaga cccgtggttt agataaggaa 410

<210> 30449

<211> 205

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-H9

<400> 30449

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aaaaaaaaaa aaagagagaaa atacacacaaa accaacaaga caaaacaaaaa caaaaaaaaaa 120
 aaaacaaaac aaaaaaaaaa caaaacacac acacaaaaaca aacaacaaaaa acaacataaa 180
 acatacaaaa caaaaacaaa aacaa 205

<210> 30450
 <211> 355
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-G4

<400> 30450

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 ctgcaatgtc atgacctaca agcctgagtt caccgaccac ctcacgcaca agctgaagca 180
 ccaccctga cagatcgagg ccgccgccgt catggagcac atcttggaac gcagctccta 240
 catgaagctg gcgaagaggc tcggcgagct cgaccgctg atgaagccga agcaggacaa 300
 gtacgcgctc cgcaccttcc cgcagtggct cgggccacag atcgaagtca tccgc 355

<210> 30451
 <211> 61
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-A10

<400> 30451

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 c 61

<210> 30452
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-E6

<400> 30452

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ggcctgacca cccgcatccc cgtcagtcat ggcagcggca gcaggcggag gcgcggtgcg 120
 tgcgctgtcc cagaaggagc aggacatata gatgatgctc gccgccgacg tccaccttgg 180
 caccaagaac tgcgatttcc agatggagcg ctatgccttt aagcgccgca ccgacggcat 240
 ctacatcatc aaccttggca agacatggga gaaactgcag cttgcagcga gggttatcgt 300
 tgccatcgag aacccgcagg acatcatcgt ccagtcgcc ccgccctatg gccagcgtgc 360
 tgtcctcaag ttcgctcagt aactggcgc tcatgccatc gctgggaagc acaccctg 419

<210> 30453
 <211> 327
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-E7

<400> 30453

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 ttgtacatta gtagagctct gcgacaagag cgctgataca actagcttcc ttttgccttc 120
 taattaaaag gttgaatgta aattcgttta atgctgatac cagttctgat gatttttgta 180
 ctggttcctc cgattctgga ggccagtgcg atttctgcaa ataaataagc cttctgggtga 240
 agcaatggtt cttaaaaaaa aaaaaataat aaactaaaac taaaaaaaaa taatatataa 300
 aaaataataa aaacaaaatt atataat 327

<210> 30454
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-E8

<400> 30454

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 ggccgccaat cccttcccgt gctccgcaac cgctgagtga gaagaagaga tggccggcaa 120
 gggcgatggc cgggctatcg gcatcgatct cggcacgacg tactcttgcg tcggcgtgtg 180
 gcagcacgac cgcgtcgaga tcattgccaa cgaccagggt aaccgcacca cgccctcgta 240
 cgtcgccttc accgactccg agcgcctcat cggagatgcy gccaaagaacc aggtcgccat 300

gaaccccatc aacaccgtct ttgatgccaa gcgtctcatc ggcaggaggt tcagtgatgc 360
gtctgtccag agtgatatca agctgtggcc cttcaaggtc atttctgggc ctgggtgagaa 420
gccaatgatt g 431

<210> 30455
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-E9

<400> 30455

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gggtgagggg atggacccta gcctgaagga ggaggtgatg aaggcgggtg aggaggcgag 120
gtccgcggcg gcgccgcggt gccgggtggt gcggatcatc gtgcacgacg aggacgccac 180
cgactcgtct tccagcgacg acgagggaga ggaggcgggg gagcgcgccg cggcgcaccc 240
gggcgcggcg ccggcgggga gcgtgaagcg cagccgcgtg ctgctccagt ccgctgggtg 300
cggggcgggag gaggacggcg agggggccag gttcacgggc gtgcggcg 348

<210> 30456
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-F1

<400> 30456

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ccaacgacga gcatccgggt tagagaggaa gaaattgcaa ccgaaacaat ggcggcagat 180
tccggcgctc gcagacaacc aagcttcacc aaggctgacc agctgcgccc tggaaccac 240
ggccacaacc tcatcctcaa ggttggtgac tccaagatgg tcgtccagag aggccgcgag 300
ggaggggccc agggaagaca gatgaggatt gcggagtgtc tgggtggtga tgaaaccggc 360
atcattgtct tcaactgcaag aaacgatcaa gtggatgtaa ttaggcctgg aacaactgtt 420
gaac 424

<210> 30457
 <211> 439
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-050-Q1-K1-F10

<400> 30457

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cgcccgcgatg gccaaaggcca aggagcaggg caagctggtg gtcatcgact tcatggcccc 180
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ttccgcggtc ttccctcagg tcgacgtcga cgaactgctg gaagtcgca agatctacgg 300
cgtccatgtg atgccgacct tctgcttcat caggaacggc gagacgctcg agagctttgc 360
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gacggctcct gcctcggcg 439
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<210> 30458
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-F12

<400> 30458

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gtaactcttg tccaattcc atccagcgat gcatcccgtt gcgcgacacc atgagggagt 120
gcatttcgat ccacatcggc caggccggta tccagttctg aaaccctgc tggcatctgc 180
actgccttga gcatgacatt cagactgacg gtcacatgac cattgacaag accattgatg 240
gaggtgacga tgctttcaac accatcttca ctgagactgg cgctcgggaag cacgtgcccc 300
gtgctcttga tgccgacctc gaaccactg tcatcgatga cgcgaacact gggacctacc 360
accagcactt gcacactgag cagctcatca a 391
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<210> 30459

<211> 436
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-050-Q1-K1-F3

 <400> 30459

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 caacattgag cacttccgca cggataagtt tgggtatgca gatgttggtg aggaagtctc 180
 tgttgagag ggcaagggtg tgaagatcac tggaatcaag gacatgggta ggaccgcaac 240
 tgtacttgtc aggggatcta accaattggt tattgatgaa gctgaacgca gtctccatga 300
 tgcactctgt gtcataaggt gcttggtcag caagagattt ttgattgctg gtgggtggtgc 360
 tccagaaata gagatgtcaa tgcagctggc tgcttgggca aaggagcttc gagggatgga 420
 gagttactgc atcaag 436

<210> 30460
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-050-Q1-K1-F4

 <400> 30460

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 tactagccgt gctcacggtc aagagcggct cggaccctca catgattaat tatggaactt 420
 aaaattaatt tgacatctg 439

<210> 30461
 <211> 361
 <212> DNA

<213> Zea mays
 <223> Clone ID: LIB3067-050-Q1-K1-F6
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<210> 30462
 <211> 376
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-050-Q1-K1-F7
 <400> 30462
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 tggtgagagg gtgcaattta ctttaaacad ggttcgtgac ttgctgtaaa tagtagtatt 180
 aatcgattcg ggcatttagt aactaaatta aggggtgtgta tggttaggct tttgatttct 240
 aaacgacaaa agccaaacta aagagctgga tccataaaat agcattttct aaaagtcaga 300
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 ttaaataata tatatt 376

<210> 30463
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 30463

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 gagaagatgt agtccactca cttaaagttt ctctggaaga tctttacaat ggaatctcaa 240
 agaagctctc tctttcacgc aatgtcatct gctccaagtg caagggcaag ggctcgaagt 300
 ctggtgcttc aatgaggtgc cctgggtgcc agggctcagg tatgaaagtc accattcgcc 360
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<210> 30464
 <211> 434
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-050-Q1-K1-G1
 <400> 30464

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 cttcgaggca accggtgcac caggcctgag ttcttgaata agcccaggaa ggagaagggt 180
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 gagaagccag atatcatgta cgcaaatgtg tttgttgacc caaaggaagc aaggcgcaag 360
 aagaagagga gggttaagaa caagaagaag gacttgagc aggctaaacg gttgcaggaa 420
 gcaaagaagg atcc 434

<210> 30465
 <211> 154
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-050-Q1-K1-G10
 <400> 30465

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<210> 30466
 <211> 451
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-050-Q1-K1-G12

<400> 30466

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 aggccattga aggtgcttat gacaagataa taatgaatag ctacacagac cgtaagaaat 240
 ccaaattcaa tctgaaaagc aagctaaaag agcaagttga aggatcccca tcatggctta 300
 aggcactgct tggatatttt gaggtgccat cactagagat catttcaagg agatttgcct 360
 tttttgcgtt ctttgccggg tggagcattg caacttctgc tgagactgng cctgcctttc 420
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<210> 30467
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-G2

<400> 30467

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 ttattgatac ctctaccac ctgccttcta ttgaacttca ttggtgttgt tgttggcatt 240
 ttgggtgatt gcattacctc ccgaggcact gaggtcgttc tcaatttatt tggtagtggt 300
 gacttgatcc ttggcggcaa cccctggact ggtctttgag ttgcagcaga gcgttgtcac 360

taggaacgcc atgatacacg agtatgctg cgacaacgcg gaggtcagg agtgggcgtt 420
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<210> 30468
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-E5

<400> 30468

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gtggggcacg gaggtggatc attgcccgtc cgctctctgc cccaccgcgc cgggcatcgc 180
cgtcaagggc tgcccgggtg tctgaatctt ccgagacctg agcgtagtaa gcagtgtgtg 240
taacagtgta aggaaatgtt tgctacggga gccatggatt caaccaagca tcgattaacc 300
gatgcagtgc tttgtcactc gtgaatgtaa caccatagcg ccagtgggtg attcagattt 360
c 361

<210> 30469
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-C3

<400> 30469

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caaggagcat gcggaggagg agctgtgcca agccacaatg ggtatctcac gcgactcgat 120
gcacaagcgc cgtgccaccg gtggaaagca gaaggcctgg aggaagaagc gaaagtatga 180
gcttggtcgc cagccggcca acaccaagtt gtcaagcaat aagacagtga ggagggtccg 240
tgttcgtgga ggtaacgtga agtggagggc tcttcgcctt gatactggta actactcatg 300
gggaagtga gctgttacc gcaagaccgc tctctcgac gtggtctaca atgcatcaaa 360
caatgagctt gtgaggacac aaacccttgt gaagagtgcc attgtgcaag ttgatgctgt 420
cccatc 427

<210> 30470
 <211> 180
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-050-Q1-K1-C5

 <400> 30470

 ggcagctgag tcataatgtt gccaaagttca tttttgcact cccaactgta gattactgca 60
 gttcatctgt aaatttcaat cttgttcaag aagaatgata atatattggc atgttttttc 120
 ttagcagttg tataaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaataaaaa 180

<210> 30471
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-050-Q1-K1-C6

 <400> 30471

 ggtgctctga acgttgatgt gaacgagttc tagaccaacc tggtagccta ccctaggatc 60
 gacttcatgc tttcgtccta cgctccagtc atttctgctg agaaggccta ccacgagcag 120
 ctgtccgtgg ccgaaatcac caacagcgcc ttcgagccat cctccatgat ggccaagtgc 180
 gacccccgcc atggcaagta catggcatgc tgcctcatgt accgtggtga tgtggttccc 240
 aaggacgtga acgctgctgt ggccacaatc aagaccaagc gcaccatcca gtctgtggac 300
 tggtagccga ctggcttcaa gtgcggaatc aactaccagc ctcccagcgt cgtccccggc 360
 ggtgacctgg ccaagggtgca gcgtgccgtg tgcattatct ccaactccac cagtgtttgtg 420
 gaggtcttct cccg 434

<210> 30472
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-050-Q1-K1-C7

 <400> 30472

 cccacgcgtc cgccaagaac cacagccacc gtgatggcgc agatcatcga tggcaaggcc 60

gtcgccgccc acgtccgccc cgaggctgcc gccgatgtgg ccgcgctctc gtcggcccac 120
ggactcgtgc cggggctggc cgtgggtcatc gtggggagca ggaaggactc gcagacgtac 180
gtgaacatga agcgcaaggc gtgcgccgag gtcggcatct gctccatcga cgtcgacctc 240
ccggaggaca tctccgagac cgcgctcgtc gccgaggttc atcgctcaa cgctgacccc 300
gccgtgcacg ggatccttgt ccagcttcca ctctctaagc atatcaacga agagaagata 360
ctgagcgaga tttccatcga gaaagatgtg gatggcttcc atcctctcaa cattggcaag 420
cttgcaatg 429

<210> 30473
<211> 433
<212> DNA
<213> Zea mays

<223> unsure at all n'locations
<223> Clone ID: LIB3067-050-Q1-K1-D1

<400> 30473

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ggatcacaag aaggctgggtg ccatgaatgc actggtcctg gtctccgctg tcttatcaaa 120
tgctgcatac ctactgaact tggactgtga tcaactacatc aacaatagca aggccataaa 180
agaggctatg tgtttcatga tggatccttt ggtggggaag aaagtgtgct atgtacagtt 240
ccctcagagg tttgatggta ttgacaaaaa tgatcgatac gctaacagga acgttgtctt 300
ttttgatatc aacatgaaag gtttggacgg tattcaagga cccatttatg tgggtactgg 360
atgtgttttc agacggcagg cactgtatgg ntatgatgct cctaaaacga agaagccacc 420
atcaagaact tgc 433

<210> 30474
<211> 148
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-D11

<400> 30474

cacacatcta accacacact cccaaccaac aaccacagcc cctccatac accaatcata 60
taacacaaa cctctaaacc atatacatct aaaacacctc caaccacaac accctccaca 120

aaccccaacc ctaccactac ataaacac

148

<210> 30475

<211> 64

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-D12

<400> 30475

cccacgcgtc cgaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaagac aaacaaaata 60

ggga 64

<210> 30476

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-D2

<400> 30476

gttccttctg tcagtgggtg tgactgggca tcttttgatt cttttggcca acaacaaaca 60

ggagcgaaca agcagcagtg taaatcctct tgagtctgca cttgcacagc tgtcattctc 120

tgaagcacc tctgcaccaa atgtgtcagc ttatcctggt tctcttgatc ccactttgaa 180

agcaaatgat ggaggacatt catctgtgct agaccagtca cattccttgt ttgatgcgcc 240

ctttggaatc tcaggcaacc aggcctcaac agtaatgtcc ggccaaggat catcagttca 300

acaatctcct ctagctgccc caacagctgg acctccatct caagctactg caaatccaca 360

aggaaccagt ggtattcaag gaggcagctc ttctactgac agtaaatctc gtāgcaggaa 420

agaacttcca gcggata 437

<210> 30477

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-D4

<400> 30477

cggacgcgtg ggggaaaatg gaggagcata tacctaagga gcagaggccc aaggctaacy 60

ggaagaagcc tgtgatgaac gaatgaatat ctccagaagc tttgttcaat gtgcaaccaa 120
gtccgatgtc cgtctgctct ggtcagctta aaaccaacgc ttccaataat cctattgggtg 180
tcttagtttc cccttatagt gttatttgcg cggttgaac atggcaacgg aatgaaact 240
tgaactatgg tactgtcatc aatttgagac ccccatgatt gac 283

<210> 30478
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-D6

<400> 30478

cccacgcgtc cggatggatt tgcttgtgat ggaaaatctt ttgtttggac ggaatatggc 60
gaggctctat gatctaaagg gatcttcaag gtcaaggat aatgcagatt caaatggtag 120
caacaagggt cttcttgacc agaacttaat tgaagcaatg ccaacttcac cgatttttgt 180
tggaacaag gcaaagcggc tactggaaag agctgtttgg aacgatacat ctttcctagc 240
tggaatcgat gtgatggact attccttgcg tgtgggagtc gacgaggaga aacatgaact 300
ggctcttagga attattgatt ttatgaggca gtatacatgg gacaagcacc ttgaaacatg 360
ggtaaaatct tct 373

<210> 30479
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-D9

<400> 30479

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tgtccccagg gtccggcgat gtcggcgccc tccgacgccg cgggtggcagc cgcagcggcc 120
gcatccacga ccaccgccgc cgcctccagc ggtggggtca ccttcaagct ccaccgcgtc 180
gtcatcgatga acgtctccga ccaccacacc cgcgtcaagg cccaggccgc ctgctccggg 240
gacagctctt cccctcctc gtccgccccg ggggccgggc agccgccgag ggtgttcggg 300
tgcgatgatcg ggggtgcagcg cggccggacc gtggagatct tcaacagctt cgagctcgtg 360

ctcgaccccg tctccggaac cctcgaccgc gccttcctcg acaagaagca ggagctctat 420
aagaaggtgt tccccgactt ctacgtgctc 450

<210> 30480
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-E1

<400> 30480

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ggtggctcgt ttgcttcaga agaaagtata tggtggagct gcaaagctgc aaatactgaa 120
acatttagag cttcctcagg agattatgca ctgggtttaca gccaatgaag cagaaagtca 180
catacatgtt gtcccatgt ggactctagc aagcttcaag cggatgaaat atctatcgaa 240
tcaatatgct ggccggtatg accttatagt ggcgttttgt cctactggtt gggcatttgg 300
caaaggtagg aaaaagacac caggcaaaag gtggcaacaa ggatcaatca ttagatatga 360
agtgccttac agtgaacaca gcagtttcac ggaactgcag cagtttgtca agttcatatc 420
accagagcac a 431

<210> 30481
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-E11

<400> 30481

cccactgact ggtatattaa caaattgggt gaagcgaaga ttggcagcca tggcttgga 60
ggtatatttg cttgatgtgg tcagccatgc cttttgagtt cttctatgcc atggcagcag 120
agctggagga gcttatgtca tgtgcagttg ccgcatgcgc caatgctcct gtgtttgtaa 180
aggcggagc tgagggtgctg cggctatcat ctgggtccgc gataagttaa ttgtactgat 240
agttgatatc taactactat tttgtgtatc aaatgaaaat gttggaacta aaggatcgga 300
tggtataggt gtcttatgaa cctgttctgg ctggcaaaat taaccagaaa tatggatttg 360
ccaaaaaaaa aaaaaaaaaa ataaatataa aaaaagaaca atatatataa a 411

<210> 30482
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-E2

<400> 30482

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 gggcgcgcaa ccccgctctt ccaactgcggc gcaggcttcg cttcgggtcc gtcggttcg 120
 agcagaagaa aatgcaacgg gcagtgcagg ccgtcaggtc acacggcaat gttcttaaat 180
 atgctgttct acaacacatc agcgtccca agccagcaat gttcctgct gccttttctc 240
 gtttcatgtc agtttcatct gtcgcctag aggatcgtgg atttgaaact gccactgtag 300
 cagatgtctt gaagtctaaa gggaagagtg ctgatggatc ttggctctgg tgcaccacag 360
 aggatagcgt ctatgacgct gtcaaactta tgactcaaca caacgtggga accttggggg 420
 gttgtcaaac 430

<210> 30483
 <211> 354
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-C2

<400> 30483

cccacgcgta cgcccacgcg ttcgcccacg cgttctgggc cagaggcgca gaaggcagtc 60
 gggggcatga ggaagaggaa gaagaagcgg cagcgagcga ggatgccgtg cctgaacgtg 120
 tcgaccaacg tgaacctgga ggggggtggac accttcgcca tcctcgtcga agcctgcaag 180
 ttcgtagcca acatcatcgg tgagcccgag gtctacgcga tggttgttct caagggttct 240
 gcgcatatgg catttcgagg ttcccatgag ccacaagatt acgcgcagct ggcttccatc 300
 ggactgctga accctgagtg aacaagaggc ttaacgatga atctgctata tcct 354

<210> 30484
 <211> 105
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-E3

<400> 30484

gaaatttaac agcatgaacg acgactgttc ataccggctc ttgatttcgt ggtagtgac 60
gttgacaggtg gtttgagtcg cgctacacgc tgtacatacc ttttg 105

<210> 30485

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-E4

<400> 30485

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ggtcggcgcg gcgaagatgt cggggcgcgg caagggcggg aagggcctgg gcaagggcgg 120
cggaagcgc caccggaagg tgctccgcga taacatccag gggatcacga agccggcgat 180
ccggcggctg gcgcgcaggg gcggcgtgaa gcgcctctcc gggctcatct acgaggagag 240
ccgcggcgct ctcaagatct tcctggagaa cgtgatccgc gacgccgtca cttacaccga 300
gcacgcgcgc cgcaagaccg tcacagtcac ggacgtcgtc tacgcgtca agcgccaggg 360
ccgcaccctc tatggcttcg gcggctaggg tagggcgggc ctgcctggct gtcgtcgctg 420
cgg 423

<210> 30486

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-A8

<400> 30486

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ggggtcgcgc gcgtcctcag gatccaccac aaccgcgcgc cgctggcccc cttcgaggag 120
taccgcgacc tggtcgcgc cggggccgcc cggcgctgcg gcggcgaggg cgccgtggtg 180
gaggagcgct gcatcgcgga cggcaacgag cgcttgcgtc tccactgctc caccatgctc 240
tgctccctgg gcggggcggt gtgcgggagc ccctactgct gcgtgtgcag caccctgcgg 300

caccggcgac gacgtcgagc tgctggtgta caaccccaga gcagtgtctc cgtgctttgt 360
 catcctctac agcagcagct agtcggtggc atgaca 396

<210> 30487
 <211> 436
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-050-Q1-K1-B1

<400> 30487

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 ggtgctgcgc gacctggacg cgctgttcgc gttcccgag ctggcgggcg tgggcaacga 180
 cggctcgctc ttcaactcgg gcgtgatggt gatcgagccg tcggcgtgca cgttcgacgc 240
 gctcatgcgg gggcgccgga ccgtccgctc ctacaacggc ggcgaccagg ggttcctcaa 300
 cgaggtgttc gtgtggtggc accgcctgcc gcgccgggtc aactacctca agaacttctg 360
 ggccaacacc acgngggagc gcgcgctcaa ggagaggctg ttccggggcg acccgncgca 420
 ggtctgttcc gtccac 436

<210> 30488
 <211> 326
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-B11

<400> 30488

gatatcaaga taggtccatc aaaatgtatt attgattgac acagacaaat atatcaagaa 60
 gattgttaat tttttaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaagacaaat atataaatta caaatcttac 180
 aacaaaaaaaa aacaaataat tagattacca taaataaaaa cacaatttaa ataatttaca 240
 actttattaa ctaataaatc atattatgaa aaccaattaa ataaccaaat aaaaatttat 300
 tatactctac acaattttttt aaaata 326

<210> 30489
 <211> 111
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-B12

<400> 30489

cctagatgca gaatcttacg tattggtttt ggttccttcg agaagtgcaa atgcaagacg 60
 catctattcc cattgagtga atacaggact accacatgaa gtatttgctt g 111

<210> 30490
 <211> 404
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-050-Q1-K1-B2

<400> 30490

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 gtctattggc ggggagtact ttatgtaaat taccaatcca aatttattat gaggatatca 120
 ttgtcaaag ataaatacca agtaatcaag ccacctgtag attttgaatg gtttgaattt 180
 gaaaatgaat ccaggctatc caaaaacctt tatttgggaa aatcagagaa aggggtgtac 240
 tgtgctttgc gttatccgtc aaccgtttcc ttttcgattt acattctcga tgaatctgac 300
 ggcaaaacgg agtggataat gaagcctcac tattatctcg ggagtcaagg aatngacggg 360
 cctggaccct ggactctaca ggatatcaac tataactgtg acac 404

<210> 30491
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-B3

<400> 30491

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 gactccggct gcggcgcggc gtgctagatc gctaccgacc atggtggtgg aggagatcgc 120
 cgaggggggtg aaaaacctca ccgttaccgg agatgcggcg gcttcaggcg gagaggggca 180

gaggaggggc ggcggcgga gcagcaaccg catccaggtg tccaacacca agaagcccct 240
 cttcttctac gtcaacctcg ccaagaggta tatgcaacag cacgacgatg tagagctatc 300
 cgctcttggg atggccatag caacagttgt gaccgtggca gaaattctga agaacaatgg 360
 atttgccgtt gaaaagaaaa ttaggacctc tactgttgaa ataaacgacg aatcaagagg 420
 gcgtccattc caaa 434

<210> 30492
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-B4

<400> 30492
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 gcgacgccct gacctcggac gagatcgacc agctgctcca agcgaacaga gagcccgggg 120
 actacagcgg ctggttaagta attaatgacg gtaatttccc tccccgatgc tcgctcctgc 180
 ctgcagcacc agctctctca ctctctccgt ttgtcttttt tctgtcctcg aaagggctgg 240
 cgcggaagcg gagtggaaga tcctgtacag tctcggcaag gacggggacg gcctcctccg 300
 caaggacgtc gcgaggagcg tctacgacgg gacactgttc caccggctcg cgcccagatg 360
 gaaatctccc gacagcgaca tggagagaag ctgataagcg tggtcgggga gaacctgaac 420
 cggtctggac atg 433

<210> 30493
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-B5

<400> 30493
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 tgatcgtcac ccatggccac tgccgaggtc cagacccga ccgtcgtggc gaccgaggaa 180
 gcgccgggtg tggagacccc ggctccgccc gccgtcgtgc ccgaggaggc tgcccccgcc 240

gcccaggcca aggtggacga gccagctgcc ccggcggaga ccgagccagc tgccgccgct 300
gagcccaggg cggcccccggt ggcgggcgag gaagagacgc caaaggagga agagacggca 360
aaggaggcgg agccggagcc ggagccggcg gcggctgaag aggtgaagga ggaagcggca 420
gcgccccgct 429

<210> 30494
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-B6

<400> 30494

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gggctactgc ggaaagtaca aggatgagct catcaagaat gctgcctaca ttggcacccc 120
cggcaagggt atccttgctg ctgatgagtc cactggcacc attggcaagc gcctttccag 180
catcaatgtc gagaacgttg aggagaaccg ccgtgccctc cgtgagctcc tattctgctg 240
ccctggtgct ctccagtaca tcagcgggtg gatcctcttc gaggagaccc tgtaccagaa 300
gaccaaggat ggcaagcctt ttgttgatgt cctcaaggag ggaggcgctc tccttggcat 360
caaggatgac aagggcacca ttgaagttgt tggcactgat aaagagacca ccaccaatg 420
ccatgac 427

<210> 30495
<211> 432
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-050-Q1-K1-B7

<400> 30495

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ggagccagtg cttcttgttg gtaccctgca ggataacttc ttggccagct tcttgctcgg 120
gtgggggtata accattggtg ctggccttgc ctctacccc attgacactg ttcgccgtcg 180
catgatgatg acatctggtg aggcgcgtcaa gtacaacagc tccttggacg ctttcaagca 240

gattgtcgca aaggagggtta ccaagtcctt cttcaaggggt gctggcgcaa acatcctccg 300
 cgctgtagct ggtgctgggtg tccttgctgg gtacgacaag ctccagggtg ttgtcttcgg 360
 caagaagtac gggctcgggtg gtggctaagg atgtataatg atgatgacga cgaacaacan 420
 acatgatgtt tt 432

<210> 30496
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-B8

<400> 30496

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 cgggatcgct ctgaacgacc acttcgtcaa gcttgctctcg tggtagcaca acgagtgggg 180
 ctacagcaac cgcgtcgtcg acctgatccg ccacatgttc aagaccaggt agagggtttt 240
 cccctgctt ctcatggatg gttgctgctt gtgtatgccg agaataaatg tggatgtcgc 300
 caggttcatg ctgagtctgg acatgttttg cacttttgtt tccatttctg ccatcatctg 360
 tggcagatcc gtcgctaata atggggacctg agattagctg tttgctgctt gtgggtgaggt 420
 tgcagttttg tt 432

<210> 30497
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-B9

<400> 30497

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 gctgcgtgaa attattgggtt atcatgctga tatcatctgt ctacaggagg tacaagtaaa 120
 ccatttcgaa gatttttttt cacctgagct tgacaaacat ggatatcagg cgctttacaa 180
 gaaaaggaca acagaggtgt attctggaaa tcctatggcc atagatggat gtgctacttt 240
 ttttcgtaga gacaagtttt cacatgttaa aaaatacgag gttgagttca ataaggctgc 300

acagtcttta acagatgcta ttattcctgc tgcccagaaa agagtggctt taagtcgatt 360
gattaaagac aacattgcac taattgcggt tttagaagcc aaatttggtta atcatggagc 420
tgaaaatcct ggtaaaagac agctccttt 449

<210> 30498
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-C1

<400> 30498

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ttggtgagat caaaggacgg ggacaagggg agagtgaggt atcaggcttc cataactgga 180
ttcagtttta cctggaagaa gccaaagggaa atgtggatta ccaaggttat atatttccaa 240
ggcgccgtgg tgaatcgctt gattcagaga tacagctgct gactgttcag tttgagtggc 300
atggcgtgct gaaatcggtta tccagcacgt tgattggcgt cagtcctgag tttgaggttg 360
cactctacac gttgtgcttt tttgttgagg gggaagataa ccgcgtcgat attggcccggt 420
atagtgtgaa cgtca 435

<210> 30499
<211> 104
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-C10

<400> 30499

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agacattttc aataaatgga gaggacctct tttaacgtta ttac 104

<210> 30500
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-C11

<400> 30500

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tcaagaagat ctattgatat ttgaaacag aactacaggg aggatttgac aactgaagac 180
tggaacttg ttgtaaagt gaaatcaata ttgaagatac aatgaaaagc cccctcccct 240
aacacacctg cccatgaatt tgggagttgt ggttctgtgg cgccacacct atctctagtt 300
ctctacaccg gagttcccca gggaggggta ccaattttga tacggtttga tttttgtaat 360
ttgctcggaa ggcgcttcac tttaacaacca cattccgtaa taacataata ttttgtgttt 420
gtttctgtac ttttcatgaa ctctgaag 448

<210> 30501

<211> 266

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-A7

<400> 30501

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aagaaaaaaa aaaaaaaaaa aaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaa aaaaaaagcc gccccctttt aaaaaccccc atctttaaac cctcgtcaac 180
cactctttat ctcttttaat atgtcccca aattaaaaat ccatccccct tcacataaaa 240
actcactaat tcaaaaaccc cttact 266

<210> 30502

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-C12

<400> 30502

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gaagatgtcg tacctgtctg cgcatctgca ctcggggtgg gcggtggacc aggccatcct 120
cgccgaggag gagcgccctg tcatcatccg cttcggccat gactgggacg agacctgcat 180

gcagatggat gaagtgctag cagcagtagc tgagaccata aagaactttg cggatcatcta 240
 ccttggtgac atcacagagg tccctgattt caacaccatg tatgagctgt acgacccttc 300
 gacagtgatg ttcttcttcc ggaacaagca catcatgatt gatctcggga ctggaaacaa 360
 caacaagatc aactgggccc tgaaggacaa gcaagagttc atcgacattg tggagaccgt 420
 atacaggggc gcccgaaaag gccgtg 446

<210> 30503
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-H12

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 aagtggcgac aaagctgcgg acgcagtggg agcagttcgt gcaggcccgg cagttctgga 120
 gcggcctgga cctgggagtc ctgcagctcg aggtcaacag gatggcgagc atcctagaag 180
 cagcaggaac ccgaatcggg tcgtcggcga cggcctacat gctgtcgtgg ctgtcgagct 240
 accagatgca gcggccgacg gccatgggct cgccgagcat cgtggccgcc gcgttcgtca 300
 ccgtgaagat gcagttcacg ctgcagcagg cgaccatcgt caacactcgt ccaccacat 360
 gcacggcgcg ctgcccggcg tgcgagtgcg ggtgcgagga ccgctgcgtg cagccact 418

<210> 30504
 <211> 144
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-H3

<400> 30504

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 aagaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa ataa 144

<210> 30505
 <211> 466
 <212> DNA

<223> Clone ID: LIB3067-049-Q1-K1-H6

<400> 30507

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gaagaactac tacttcctat attcaatacc agatgaaaat gtgcaggaga taaagatcag 120
tccaggaatc atgctcttga tatacgacag aacaccaagt tatgtcccat tgaagatatt 180
atctattgaa gatgggaaac aactgaaatt ttttaagcac ttgttacatc gcaacaagaa 240
aattgatttc attgagcagt tcaatgagaa gtccttgtc aagcaagagg acgaaaactt 300
ccagatactt gatgtgcgga gttctgagct aattgaagtc aatgtctcca agtttatgac 360
cccttcagca ttcatttttc tttatgagaa caatctcttc ttgacattcc gaaacagaac 420
agtcgctgta tggaacttcc gaggagatct tgtgacttca tttg 464

<210> 30508

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-H7

<400> 30508

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gcggccatta tcttacacca catgccatat agagttaagt atataatagt ctatgggtga 120
gaaagtgcac atatggaacg ctgtatatag agggggctca agaacttaca gagcaactca 180
tactctgtga tctacaaaaa aaaaaaaaaa aaaaaataat aaaaaaaaaa aaataataaa 240
tataacgatt tatttttaat ttaattatat gaacaaactt ttt 283

<210> 30509

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-H8

<400> 30509

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gaagaaaata aaaaaaaaaa aaaaaaaaag gacaaccaag tggtcggcct ccctgctggc 120

tcccactttc ctcccgcgtg cttgcttctt ctatcgctcc tctctaagtc caacctaatt 180
tcaattcatt tgtccgcttt ttacatggt aaaacctggg aaaaccctg cttacccac 240
ttgaatcccc ttccactttt tcccccttcc gccatttcgc ttagtcccga acaggtcgcc 300
cttgatagcc tttcccaac 319

<210> 30510
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-H9

<400> 30510

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tttgggggtg caaggactgt gggaagggtga aggctggtgg tgcttacacc atgaacactg 180
ctagtgcggt caccgtcagg agcacgatcc gccgcctgag ggagcagact gaagcatgat 240
atagctcttt atattattgg ggtttcctgt agttgctctt gtcaggcatg ttgtgggggc 300
cttctctagt ggaaatgtgg aatcactgta ctggctgttt tgccgagaca atgctcctta 360
tatttggttt atgctctagg atctcaaagt tgtggtgtta agatttgccc tcggttaccg 420
ttctgaatct gacaagtgat atttgatcct at 452

<210> 30511
<211> 303
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-A10

<400> 30511

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agacagtcgg acagaaaaca aaaaaaccac agcaccaggc aaaacaaaag gaagaaaagg 120
tgtgtgtgtg tgcagttggt gcaattaccc gcagttaaga ttttaagta acattttctt 180
ttttttcatt cttacgttgt agatgtgtca ttgaaattat gtggttagaa ggtggagtac 240
ataactgtgt gtgtatttat aatagagggt tacttcattg aatcaagcta gtgtgaattc 300

tac

303

<210> 30512
<211> 361
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-050-Q1-K1-A11

<400> 30512

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tacaggaagc agggaccttc tctgcagggt tgcgattcgg ctaccgaaca accggaggat 180
ccaaagaaac ttccttcaca cagatcctat caagctcttg tggtcattct gcgctcctca 240
ggtcgaggac ggngagagga gggctttcca cttcgtccag gcaattcctg gggcatccca 300
gaaactggag ttgggaagcg acctaacatt caaggaagcc gggctggcca actcgatgat 360
c 361

<210> 30513
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-A12

<400> 30513

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gtggcccgga gaattggactt caaaggtgtc gcctgtgtga taaactacga ttttcagag 120
tcggctgctg cctatattca caggataggc cgatccggaa gagccggtag gtccggggag 180
gctatcacgt tcttcacaga ggaggacaag ccattcttga ggaatatcgc caacgtgttg 240
gtatcttcag gctgtgaagt gccttcctgg ataatggcac tgccaaagct caagcgaaag 300
aagcacagag tggataggga cccaatctcc tacctacctg acgaagtttg agagcg 356

<210> 30514
<211> 190
<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3067-050-Q1-K1-A2
 <400> 30514
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 ggggggtgctc taagacttac tcatcatatc tccaatctca tcttgtattt caaactacac 120
 tctacaaaca atacagtctg tagtgtaaaa acattatttt gggtgaccat atgggtaacc 180
 tgctgtacac 190

<210> 30515
 <211> 420
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-050-Q1-K1-A3
 <400> 30515
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 ggaagtgtct gctgaagatg tttgcacagc aggacaagga tgtgttgttt atggagactg 120
 tcataagcct ggccagacaa cggagacact gcatgattga gtgcattcct gtcccttgtg 180
 aagtgtcaag caatgcccc aatgtacttca aaaaggctat tgatgaagct gaagaagaat 240
 ggaccaaca tgagatgaag aaggttatcc cgacaagtgc aagccgcaac ttgaggcaag 300
 tcatcccgga gaactttgcc tacttccatg tggagttcgg gctggaccgt ggctttgttc 360
 atgtaataga tgacgagagc aagttcagtg ctggaatttg attgaatgtc attagaggga 420

<210> 30516
 <211> 290
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-050-Q1-K1-A4
 <400> 30516
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 tattggaaag ggattcgtac ggattttgga ttctatctct gctcaccaag cttttgcagg 180

agatttcctt gcttaccacc gcaaatacctt ggctcgtatt tctgaaccgc gcccataac 240
actacatgtt tatgctgaag tgattcatat aacaagccta gctgttcctt 290

<210> 30517
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-A5

<400> 30517

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gtcaccacca aggggctaca ggagaagggc gcgcagtcca agtcctcatg atcattatgg 120
tggtcgtggt agggatctcc caaccagtct tctggtcagg aatctccgtc gggactgcag 180
gccagaagac ctccgtcgcc catttggaca gtttggtcga gttaaagata tatatcttcc 240
aagagattat tacactggac gcaacacaag cctaaaagat tattgttgaa gagaaggaag 300
aaatagagaa attcaattaa gtgatctgca acttaaaaga gtactc 346

<210> 30518
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-A6

<400> 30518

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gcctcttggc gtccgtcatg gtcgccatcg cgggtgtccaa gatccgtggc cgcaagctcc 180
ggctgcctcc cggccccgtc cccgtgcccc tcttcgggaa ctggctgcag gtcggcgacg 240
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ggatggggca gcgcaacctg gtggtggtct cgtcgccgcc gctggcgcgg gaggtgctcc 360
acacgcaggg cgtggagttc ggctcccgca cccgcaacgt ggtcttcgac atcttcacgg 420
acaaagtgca agacatggt 439

<210> 30519

<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-H11

<400> 30519

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gtttgcacga gatccatgta ttcttcatcg tgttggtgaa gttctttttac cagccgctgt 180
aggtggactt aagcaaacia ggcaatttgt ttttgccgat gactgctttc agctgctaaa 240
ggtctctaata cagaaaactg tgcattgcat aaaaaatgct gtccaggcat tacgtggatc 300
cacctaaaca catcaatatt ggccaatata tttattccaa tgtacctagc ctgaaggagt 360
tttgcaacc agctacaaag ttagaagaag gaacatcagc cctgaaagca atctccacag 420
tgatgttggtt attacagaga tatgagttt 449
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<210> 30520
<211> 306
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-F6

<400> 30520

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aaaaaaaaa aaaaaaatat aaaaaaatt tttacaaata aaaaaaaaaa aaaaacaaca 60
aagataaatt tataaaaaat acatatcaca atcatccata acaaatatat tcaatattgt 120
acctccacat tcaaactact tctacctatt ctttcaattt ttctctatc tatcaatctc 180
cttaaccatt cctgatcacc tgtacatcca tcttgcatc tatgattctc tttctattca 240
tgacacacac aacaacttct attccgaatc tttcttcaat cccatcttca atattcatgc 300
gatcta 306
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<210> 30521
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-F7

<400> 30521

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gtaaagccgg ctttacatgc ctagaagcta gtacctagtg tttgctgctg tctaatagaca 180

ttatgcaatg tgatctggac cctggtttct tgggtgcgac gcttgtagca gccgtcttat 240

gattatttgt cgggaaaatt tgggggctcc ccatatgaga tgctgccggg caagacctcg 300

ccatccccc cctcgtttca agcgggggac gctggagcct ggtccggttg ggttgggaag 360

ccccttaaac tgttgctgct tgcatttta ccttttcacg gccgttcagt ggtcctaaat 420

ctatggctcg tctcagtggc c 441

<210> 30522

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-F8

<400> 30522

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aaagcgaaag cagcaagaag caaagcaatg gagaaccctg cgagtgtgct agttctacca 180

gcgcagttca ccaaactcac cttccgaaac ctgtacatcc gccggggccgg gccgggcagc 240

aggagataa ccgaggaggg caggtgcgac ctggacaaga gatacgtgag tgacttcccc 300

gtctacgacg gccgcggccc cgacgccagc cttgtggccc gcgtgcaggg gatcaccagc 360

gaaatcgga acgcgcacaa actgttcgct gttgttttcg acaccgacag gctcaagggc 420

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-F9

<400> 30523

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 gcactcttga ggcacaaag aaaaatgacc catcagaaaa tacatgggac aaaagaaaag 180
 gagatggagg tgatggtgcg tgggggaaca ggtctgatga tggccatggc aattgggagc 240
 atcccagcaa ttggaatggg cagagtttgg atgtagatca ggacacatgg ggaaacgcca 300
 ggggaaaaaa gaaggcagat ggtaactact gtcaatggga ggagcagcca agcaattaca 360
 aacagaagaa gacaaatgct gatcatgatt cctcctataa caatgtgatg ccgatcatcag 420
 aaattgcttg gaatgctgga gagggaaactg gaa 453

<210> 30524
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-G1

<400> 30524

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 atcgtaaacg cagaacttgt ggactttcttc tttgtcgaca ccactccgtt ccaactggag 180
 tattggactc acccgggcaa gcatcgttat gactggagag ggggtggcgcc tcgaggcaag 240
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 gaagattgtg gttgggcaat acaccatgag gagtgttaat gagcacgggg accccgagga 360
 gcttttggaa ttactacttt caagtcttaa gggacaatg 399

<210> 30525
 <211> 385
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-G11

<400> 30525

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agcaatgcag atctctcttt ttgtcgaagt gatctccagc ttattttccaa cacatattta 180
 ttaagtcac tttgactgaa tgccttttgg tatttttttc aagacaatac atgccaccat 240
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 tggctccaca tatcattgac tcatgtgaac catacatgta agtgagataa caatgatata 360
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<210> 30526
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-G12

<400> 30526

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 agggcctccg ggagctcaca aagctacgcg tgctcaacct cagctacaac aggatttcgc 180
 ggattgggca tggctctgctg aactgcacgg ccatccggga gctgtacctg gcgggcaaca 240
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 tcaacaagat tacgacggcc aaggcgctgg ggcagctggt ggccaactac cactccctcc 360
 tggcgctcaa cctcgtaggc aaccgggtgc aggccaacat cggcgacgac gccctgcgcc 420
 gggcggtcac gggcc 435

<210> 30527
 <211> 450
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-G2

<400> 30527

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 agctgacatt cctgtgacgt ggtgccgacg tcgtgggttat gttatattgt tatgtttctt 180
 cctcttgggtg tgacgcaggg aaccgcgcct ccggccggac gccgctggac tgggagacgc 240

ggtcggcggt cgcgctggcg gcggtctcgcg gcgtggcgca catccactcc acggggccca 300
 cggcgctcgca cggcaacatc aagtcctcca acgtccttct caccaagaac tacgaagcgc 360
 gcgtgtcgga ccacggcctc cccacgctcg tcggccccctc cttctcgccc accaggggtgt 420
 ccggctaccg cgcaccggag gtcaccgaca 450

<210> 30528
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-G3

<400> 30528

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 cggcatcaag aagcccaagc gccaccgcca gacctccacc aaggggatgg accccaagtt 180
 tctgaggaac ttgaggtact caaggaaggg caacaagaag agtggcgagg ctgagtccga 240
 ggagtaagat gatggtgatt gagtttgttg cgacaaatgc atctctggta tcgctaaaag 300
 tcttagctgt gaaactagtt ctcaattctg tgtgactgtg atcaaaggac ttgtgtatga 360
 tcaaaggaga tccatcagtt ggtaccgaaa gtgattttat gtcttggtgg ttacctggaa 420
 tttaattaaa a 431

<210> 30529
 <211> 346
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-G4

<400> 30529

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 atcgttgtec taccactcta ggtctatccc ttgatctagg tttctatggt ctttaagattt 180
 gtgattttct ccgcactggt gttgctatcc ccgtgtcgta ataatacgag atgttttaag 240
 cggttgaaca ttacgggtgg gtaatcagag taatctgttg ctgttaaggt gcattgttgt 300

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346

<210> 30530
<211> 305
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-G5

<400> 30530

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acatccggat aatgggtggat gcatcgttct ttctgttcgt cgtaagcagt tctttgtatc 120
aagtgagatg gcagtgcga ctcggtaaaa ttcaagctca acagaccaa tcacaggtct 180
ctctctacat gagatcgatc tgtatgccga ttttcccgt gaactgagcc atctaatttt 240
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tttcc 305

<210> 30531
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-G6

<400> 30531

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ggggccatgg acgccagcgc agccggagcc ggcgggaagg cgaagaagg cgcgccggg 120
cgcaaggccg gcgggcccag gaagaagtcg gtgacgaggt ccgtcaaggc cgggctgcag 180
ttccccgtcg gccgcacgg gcggtacctg aagaagggcc ggtacgcgca gcgcgtcggc 240
acgggcgccc ccgtctacct ggccgccgtc ctcgagtacc tggccgccga ggtgctggag 300
ctggccggca acgcggccaa ggacaacaag aagaccgcga tcatcccgcg ccacgtgctc 360
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ggcggcgtcc ttcccaacat c 441

<210> 30532
<211> 451
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-G7

<400> 30532

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gggaagaccc tatttgtgcg aatgggtgga aatggaccat cagctgtgga agaggaaaat 120

ctgatacatt ttggctgcac actctgctgg ctatgattgg tgaacaattc gactatggtg 180

atgaaatttg tggcgcagtt gtcagtgtgc gtgggaagca ggaaagaatt gctatttggga 240

caaaaaatgc tgccaatgaa gccgctcagg taagcatcgg gaagcagtgg aaggaacttc 300

tggactacaa ggactccatt ggattcattg ttcattgacga tgcaaagaag atggacaaag 360

gcctgaagaa ccgttacacg gtttgatcct gatgctggaa tcccagagag ttgtagcagt 420

agctggccca aatgcatgct ggggtggtttt a 451

<210> 30533

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-G8

<400> 30533

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gcagtgggtg accgcagagt tcttgcttct tcctcttgga ggaggagggc tgcagcctgc 120

aggggccgga gagagcagga ggaggcggag acatgggtag cttcgctaag ctggcgagga 180

gggcggtgga gacggacgct ccggtcatgg tgaagataca agaactgctc cgaggggcca 240

aggatgtgat gtcgcttgcg caggagattg tttactggca acctcccgag tcagctatgg 300

ataagatcga aaagatcatc agggaaccaa tagtcagtaa atatggttct gatgatgggc 360

ttcctgagct tcgagaagca cttctcgaaa agc 393

<210> 30534

<211> 167

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-G9

<400> 30534
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 gtcctaacgg ttgatgtgtg tgtattctgt attctgtatc ccggattccc gatgcttggt 120
 ctgtgatgta ataaatcctg gaattcaaca gttgttactt ctgatct 167

<210> 30535
 <211> 451
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-049-Q1-K1-H10

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 gatctgcata gacaattcgg aatggatgcg gaacggcgac tacgctccgt cgcggttcca 180
 ggcgcaggcc gatgccgtca acctcatctg cggcgccaag acccagtcaa acccggagaa 240
 cacggtaggc gtgatgacaa tggccgggaa ggggtgttcgc gtgcttgtca ctcccaccag 300
 cgacctcggg aagattctcg cctgtatgca cgaagttggc gctgaggcaa acttggtgctg 360
 ggcaatccag gttgcccagc ttgtctctaaa gcacgcccag aacaagaggc agcagcagag 420
 gattatagct ntcattggaa gtcctgtgaa g 451

<210> 30536
 <211> 225
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-049-Q1-K1-F4

<400> 30536
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 tcttcgtgcg atgggttgac atgttcattc agttctcaaa gttctttag tagtactgatt 180
 gtctgttgat ctattctgaa tgtgatgata gtacttcgct gcctc 225

<210> 30537
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-049-Q1-K1-E10

 <400> 30537

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 ggggggaagg ctctaggggc acctcgccac tctcactaat caagtactaa tgcgatgatct 120
 acacattcag atcccaactg ccttcgaccc cttecgctgac gccaatgctg gagacaatgg 180
 tgcacgatca gactccaagg actacatcta cgtgcgcatac cagcactgta atggccataa 240
 gagcctgacc accggtcatg gatagcagaa tgatttcagc tacaacttga tcttcaaaga 300
 tatcatgata gagcactgct gtaatggcac actgctccat gaccagaac tagtacaggt 360
 cattcagctc cactgtgata agaggaacga actctccaat ctactagcac aggccgtcat 420
 tgtgcagaac gatcacat 438

<210> 30538
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-049-Q1-K1-E11

 <400> 30538

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 caagcagctc gtcgccaccg gcaagcccga gagcttcggc gggcccttcc tcgtgcccag 180
 ctaccgtggc tctctcttcc tcgaccccaa gggccgcggc ggctccaccg gctacgacaa 240
 cgccgtcgcg ctccccgccg ggggcagagg tgacgaggag gagctccaga aggagaacat 300
 caagaacgcc gtcttctcca ccggcaacat cacgttgagc gtcaccaaga gcaacccgga 360
 gaccggcgag gtcacggcg tcttcgagag cgtgcagccg tccgacaccg acctcggggc 420
 caaggcgcgc aaggatgtca agat 444

<210> 30539
 <211> 447

aaaaaaagaa caaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaatccac 120
 caaaaaaaaaa aaaaccaaca caaaaatcac caaaatacaa caaaaataca acaataatca 180
 aaccaaaaaa aataaaaaaa aaacgtaaaa attaaacaaa cttaacaaga agaaaacccc 240
 tgaataaacc ccaaaatata ccccatgcaa cataaaataa aaa 283

<210> 30542
 <211> 249
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-E4

<400> 30542

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 agcggatcgt gacggtcgcc gtggttctcc cggcagtagc ttctcttcac caccgacatg 120
 ctcatgctct gggccctgtt gcgcaccaac gcgcgccagt tccggcactg gctcgaggac 180
 gacacggcct acgccgcata caagtctgca caagaagcat ctgcaaagaa actcgactcg 240
 acgtgcccc 249

<210> 30543
 <211> 310
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-E5

<400> 30543

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 cccactctac gatctcggaagggtacctc ctgccaatac acaggccaca cacactgacg 180
 cacgaaacta cttggctctc gcaatctcga tctactactgc cgacaccatc tggatcacgt 240
 cctcggcacc aatgtcgtcc caccttatac gtatcgctgc tgctcacatg agccggctat 300
 tctgaccgat 310

<210> 30544
 <211> 454

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-049-Q1-K1-E6

 <400> 30544

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 ggtcacaatg cctgccctcg ccaagcccgc ctccgcacc gccaaagccc cgcgggtccc 120
 gaagccgaag cctgccgccg ccaagccgaa ggcgggccacc gctgggtgctt cccacccgcc 180
 ttacttcgag atgatcaagg aggctatcac ggcgctcaag gagaggaccg gctccagctc 240
 gcaagcgatc gccaaagtatg tgggggacaa gcacggcgcg tctctgccgg ccaacttcaa 300
 gaagatgctt tccatccagc tccgtgggtc cgcagccaaa ggcaagctcg tgaagggtcaa 360
 ggcttcgtac aagctctcgg acgccgncaa gaaggcatcc cccaagacca aggctaagcc 420
 ggcaaaggcc gncgctgcca agaccaccgn cccc 454

<210> 30545
 <211> 212
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-049-Q1-K1-E7

 <400> 30545

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 aatgaaaatt tttcactaac ttaaaaacac aaacatacaa aaaacaaaaa tctaaaataa 120
 tttaacctaa tttaaattcta cttccctcat ctttacaact tcctatactg ttaaaaccca 180
 tccttatccc aactaaatca ccattcatca ta 212

<210> 30546
 <211> 299
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-049-Q1-K1-E8

 <400> 30546

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ttaactaaaa gacgtaaaat tatactagta cgaagagaaa ctcaacaaaa aaaaaaaact 120
 aaaaaaaaaa aaaaaatgga cgcacaatct aaagaatcca aacttaccaa cacatacatg 180
 atacaacata tctcttctat aaaatcacct aaattcaata cactatccat cacaagacaa 240
 caacttgact agtaaaaccc tagcattacc aaacttaatc aacttacaaa acatcccccc 299

<210> 30547
 <211> 450
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-E9

<400> 30547

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 ccctcgattt gcgtccccgc tctctgctag cgcccctaaa agaggagcga agcgatgtct 180
 atgccggaga cgggtcaggc cgcggagagg gatgagcagc agcagtcccg agggatagca 240
 ctgatgcagg gcatctgcgc cgtggtgtac cgcaaggccg ataacacgcc ctgccccatc 300
 aagcagggtc tctacttggg atctgttggg gcagcattca ataaggacgc tctcaagagc 360
 ttgaacatca cccatatctt gatcgttgca aagtcactgg atccagtatt tccagctgaa 420
 tttaattaca agaagatcga agtacttgat 450

<210> 30548
 <211> 447
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-F1

<400> 30548

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 agagatggca gggttcgttt acaatccgtt gagtggagaa tggtcctgt cagatgatat 180
 cagtgtgaac tacattgctt ttggcgtcaa gaagggtgaa gcatcatcga caaatggcag 240
 agatgcaagt ttatcatagc tgaagaaaaa cacgtgacct tgaattgtcg ggcattcattt 300

tcagaggacc aattcatgtc actgaaatct tactgctaaa gatgcaacca agtagcagaa 360
gagaattctc ttgccctttg ttagtcttgg aaactggagc ttgtggagtg atgcttcctg 420
gaagcgccat tgagaagtca agttgac 447

<210> 30549
<211> 441
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-049-Q1-K1-F10
<400> 30549

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agctgctcga cgatatgcac aaccggctgc gtgtggatcat gctgggtgtc tgcgcagcgc 120
ttgcgcgacg ccaccgatct gcgcagcgcc ttcgagtcgt cgtcgaaacc cgcagtgagc 180
tcctgtctgc cccgtgcttt ttgtgttaaa ttaaaaggcc gcaccaatga atcacataat 240
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gcacgcgtcg tcggcaaaga gcccuaacta atggcatgca tgcgcggcac gagtcggcca 360
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gtgtgtgaat atgtgcgtga a 441

<210> 30550
<211> 424
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-049-Q1-K1-F11
<400> 30550

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cattgtgcaa cgccctgtgg ttgtgaatgg tgacatcctt gcgaggccaa tgatgtacct 180
tgcgctgact tacgaccaca ggttgatcga tggcagagag gctgtcttct tcctgcggcg 240
catcaaggat gttgtcgagg accccaggag gttgctgctt gacatataaa ttcatgcacc 300
agcgctgcgc tgccctgccg gactgttttg tgcaattgtg cttatctgga aataatgcc 360

tggaattttt tgactgatga aaaagaatta ctttctcaga aagacgaaat ctgagctgag 420
gata 424

<210> 30551
<211> 254
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-F12

<400> 30551

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gggggggggt ttctaagtca cgtagtaata cgtgtactcg cgaccagctg atgcggtcaa 120
cgctagctag tgattttgat ttgtacaagc cagatatatt gtgcactaga atcatggcaa 180
ccgaggtcct atggagctcg gatggcacat gtggaatgct aatcggctgg aagatatagg 240
ggatatgcac cgaa 254

<210> 30552
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-F2

<400> 30552

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tcgtcggtta ttgaattcag aatagaaaga ttcagaataa acaaaattta taggattcaa 180
ataatcaa ataaagtaaagg taggcgggta ataaccttat ttatgacaag tttcaaattg 240
gtaaagtata ccctaggat aaagaagaag aaggggctga gaaaactcgc aagaaaagtt 300
ccaaccgatc gtctacttaa attcgaacgg gttttcaaag cacaaaaacg catacatatg 360
tctgttttca aagcaciaaag agttctagat gagattcgtc ggcgttacta cgaggaaacc 420
gttatgatac tgaatctcat gccttatcga gcatc 455

<210> 30553
<211> 357
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-F3

<400> 30553

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gaggggagcg tcctctacgg caagggcgtc tcgacgagga gggccgtgca cgcacttgcg 120

tacgacaaga acctggagga ccacatgcgc ccggcgcttcg tgcctgacga tgtgatcggc 180

agtgccagga gcccggacaa gtactggagc cccaccccca tgaccggcct gatctgcccc 240

gccgttgtgg accccaagct gctcgatggt ggcacaccag acgccagcac atatgctgca 300

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<210> 30554

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-D9

<400> 30554

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gagagggacc tatcctcgct ggctatacgt ctcccctccg cgcacaaaaa ccctagcacg 120

caggcgcagc caggcctgca cccaaagctt ccggagaatt cctcccttgc cccgccgtcg 180

catcctcttc gaagttcgaa tcgaatcgcg ccgcatcac ccacctcatg gcggacaagg 240

agcctgtcgt ggagcggcca gaggcgggtg aggaggagga ggacgcctca gccgccgccg 300

ccgcggggga ggaggaggac acgggcgccc aggtggctcc catcgtgcgg cttgaggagg 360

tagccgtcac caccggcgag gaggacgagg acgtcctgct cgacatgaag gcgaagctgt 420

accgattcga caaagacggt taccaatgga aggaa 455

<210> 30555

<211> 452

<212> DNA

<213> Zea mays

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<400> 30555

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 gcacctacgg caacatttta cacattttga gtgagaatca tgggaagatc catggatcgt 240
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 aaggagcaca agaattttct gaatgcccac catggtagaa aggttgagat cttggttggt 360
 tcccgctgg caagatggct ggtcctttcc aggaagttgc tttcaacaca cctgacggaa 420
 ctgtagcgc acc 433

<210> 30558
 <211> 457
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-C5

<400> 30558

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 tgaggcttct tacttcagat ggcaacacta aggatgatct tagactccca actgatgaga 180
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 cttggctttg gagacggaac cctactgtat ctcaacttaa atcggaaaag aagtgtatca 360
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<210> 30559
 <211> 452
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-C8

<400> 30559

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ctgactgcga gaccacagca ccggaggacg cccgcgcgcg cgaaccgcag cgcagaggca 180
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<210> 30560
 <211> 456
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-C9

<400> 30560

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 cggaggagac ggtgcgggag ctgcgcgcga gcttcgcggc ggggcagacg cgcccgcccg 240
 agtggcgggc ggcgcagctc aaggggctca tccgatgat cgacgagaag gaagccgaga 300
 tcagcgccgc gctccacgag gacctcgcca agccgcatat ggagtccttc ctccacgaga 360
 tatcacttac aaagtcgtcg tgcaagtttg cgctcaaggg gctcaagaac tggatgaagc 420
 ccgagaaggt acctgcgggc ataactacat tcccg 456

<210> 30561
 <211> 287
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-D1

<400> 30561

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 atgaagaatt gacgatgtat cttttgggtc tcatgttttt actcaatggg gaacttgtaa 120
 tgaacttgta acagatgtgc ttttgggagc agtttgcaca tctgttgatg tgcacctatg 180

ttgtaagcac attgtatgtg ttaatttggga actttggatg tttaatgtgg tgaaaaaaaa 240
 aaaaaaaaaa aaaaaaaaaa aaaaataaat aaaaaatata ttaatat 287

<210> 30562
 <211> 468
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-049-Q1-K1-D10

<400> 30562

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 gttgacatta tcccgtccga tcatctgaca tcgccacaat tgtctccaaa gaaaaatcag 180
 aacaagttga agtcactttt tcgtagaagg tcgcatagtt cagttagaaa gcttggaggc 240
 aagtctgcct ccattgggtc cgtggaggag ttatttgaag aagggctctgc aatgctagaa 300
 gaaagcttat tttcagcttc ttcacaaatt taagcagaag ttctgccaaa cagccagctt 360
 ctacagcagc ttattagttc agctgcttct cagaatacac taaaagcagc caacaagcag 420
 aagctgcctt tcaccagctt ctacagataag ctgctttntc aacaagca 468

<210> 30563
 <211> 448
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-049-Q1-K1-D12

<400> 30563

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 ctttttttcg cgaggaaacc taactcgttt ctctctctac gacatctgca ggctacgggg 180
 catgcgtgta caccggggga ggccaataat gcacggcgca cggcgggtgcc aaccccgtag 240
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 ggttgtgcgt gcctacaggc tacagcaagg gaagggctct gggcggaccg aataattgcg 360

gttggtgccg tgggtggcgt gttgtagcgt agtgcagtgc agtgcagtgc agtgcagatc 420
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 <213> Zea mays

<223> unsure at all n locations
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<400> 30564

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 cgcaaggcaa gcggccccag gaagaaatcg gtgacgcggt ccgtcaaagc cgggctgcag 180
 ttccccgtcg gccggatcgg gcgctacctt aagaagggcc ggtacgcgca gcgctggggc 240
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 ttggcaggga acgcggcgaa agacaacaag aagacgcgca tcatcccgcg ccacgtgctc 360
 ctggcgatcc gcaacgacga ggagctcggg aagctgctgg ccggcgtcac catcgcgcac 420
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<210> 30565
 <211> 456
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 30565

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 acctgatccc cttcccacgt ctgcacttct tcatggttgg atttgctcca ctgaccttgc 180
 ggggctccca gcagtaccgc gctctcaccg tgccagagct gaccagcag atgtgggact 240
 ccaagaacat gatgtgtgct gctgaccctc gtcattggcg gtacctcacg gcatctgcta 300
 tgttccgcgg gaaagattaa caccaaggaa gtggatgaac agatgcttga cgtgcagaac 360

aagaactctt cctacttcgt agagtggatc cccaacaacg tgaagtcgag tgtgtgtgac 420
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<210> 30566
<211> 178
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-D4

<400> 30566

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agcgcaacac aacacagtct gactgctagt gctagatgag cccctgttc catctgtgtg 120
cgactttgtt tgtgctgtgt catctatcta tctaactaat ccatctatgc tatcctct 178

<210> 30567
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-D5

<400> 30567

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ggtcctgctg gagatcctga catccaagct acccgtggac gacgtgttcg gcgagggcgt 180
ggacctcgtc aagtgggtgc acaccgcacc agcaaggggt gagacgccag agcagatcat 240
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ggagatgctg caagaggcca agaacagctg agttgatgtg tttctctgct gaatcctgaa 420
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<210> 30568
<211> 449
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-049-Q1-K1-D6

<400> 30568

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actagcctta tattctacac aatcatacag aatgggtgct acaaaatggg aggcagctga 180
taacactgaa aaggaacaaa atctcaaacg aaagtaatct acagcaataa aactgctac 240
tggcagttgc tccgtttctg tgaaactcaa gcaaagattc tcgcaggtcg aacactgacc 300
caatcaaatt gggcagtctg attatgtggc aaagctttct gtcgccagca ttccccagtc 360
ctggaactaa taaaactttc tcatttactt ctggatcaat cattcctgtg tacacgtgga 420
gcccaaggaa ctntgtattg aacttttgc 449

<210> 30569

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-D8

<400> 30569

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tcttcagctt tttctcttga cggcgctagg cgtggatgga gcggcgtcgt tcactttcac 180
caacgcctgc aagcacgcgg tgtgggtggg cgcgctccac ggcgccagct cgccgccgct 240
cgcgcggtcg ggcttctacc tggcgccgtc cgccacgtcc agcatggacg cgccgtcgtc 300
ggggacatgg tccggcacgt tgtgggcgcg cacgggctgc gtggccgacc ccgccaccgg 360
gcgcttctcc tgcgccacgg ccgactgcgg cacgggagac gtcgcgtgcc agggccgcgg 420
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<210> 30570

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-C10

<400> 30570

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ccgcttatga agccatacag cactctatgg acctgtatgc tacatacatc gttgagggcc 180

tgaggaggta ggattctgat ggctaggaaa ggtggtgagg atgttgacga aaaactggga 240

gaccatttac cgcattggaac gaggaccgtt attattttat ttgtgtcgcg tatactgcta 300

gtagtgaacc ctcaatcaaa gaccgaaatc ccctgaggag tcggagtcgg tagtaggtga 360

agctagtaac aaggttggcg aaatattatt ttctggcctg actgcctata tatgttgtac 420

gtgattggta tcgtaatatt cattcgct 448

<210> 30571

<211> 370

<212> DNA

<213> Zea mays

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<400> 30571

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accaaccatg cttcctgaat cggcagttga ttactcttct ctcaacactt ggggttagcg 180

ataatgtctt tgagctaaag cagaaggaag ccttaaggca gttgaacaga atggtaactg 240

aaccacaggc tgctcgtgaa gcagttgaac ttatgcccat gggagaagta accaatgtag 300

ttaaagaatt gttgtcatgt ggctaccagc ctgatcatga gccatatctt tccatgctgc 360

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<212> DNA

<213> Zea mays

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 ttactacaga tgaaatcagt tattcaacct gctgcatgac aaatttggca gtggatgaac 180
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 aagaagcaat agccgccgat cacgtgaaac ttgttgtgtc ctgaaaacta aaggaatggc 300
 agaataaaga aattctgttg agggcaacag catggaagct ccggccgact tgtcgccgga 360
 tcccacagcc ctacaacata ggtggttctt atctagcctg cagggtgcta tgaaagtttg 420
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<210> 30573
 <211> 426
 <212> DNA
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<223> Clone ID: LIB3067-049-Q1-K1-A9

<400> 30573

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 tgctgcatct atctggaagg cgaagggtga tgggtaacat catcgtgtct ctctctcccc 180
 tctggtgttg gaatgtacac tagcgtcgtt atcatgagat gcaattgtaa tctgaggttg 240
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 gtaaagattc agcgaatgtt actttgtcaa agcatgtata atcaatcata ctactaacta 360
 tggagacatg ttcatatgag aaatggcagc agcacatctt tgcttatata ttcaccatct 420
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<210> 30574
 <211> 333
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-B1

<400> 30574

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gttactacag atgaaatcag ttattcaacc tgctgcatg cagatttggc agtggatgaa 180
catttacaat gcaccacgtt ttccagtga gaagcgacag cttttctttc tcaaagatgg 240
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cagaataaag aaattcttgt gaaggcaaca gca 333

<210> 30575
<211> 434
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-049-Q1-K1-B10
<400> 30575

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caggaccggc tccaggggtc aggtgaccca ggtcagagtg aagttcttgg atgaccagaa 180
ccgtctcatc atgaggaacg tcaagggccc tgctcgtgag ggtgacatcc tgaccctgct 240
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tgttaatttt gttcaatgtt tgtcgaactt gccgtgtgac ccatactata tctgctttgg 360
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gtcggcatgt tctc 434

<210> 30576
<211> 452
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-049-Q1-K1-B2
<400> 30576

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tggtcaagaa gcggaaggcg cgggtgcctc tcgacgtcgc cgacgccgtg atggagccag 180
tacggcggtc cggccggctc gccaacctcc cggataagcc cgtgtaccgc gagaagggtc 240
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gggtgtacgc gaccgacgat gcgaggagct acgccatctc taaagcggaa gatctggagc 360
aagaactgga cttcagcttc cccatcttca tcaagcccat gaccagtc cc catgtcacccg 420
ggggcttctg gctgggcctt ccgattcatt tc 452

<210> 30577
<211> 254
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-B3

<400> 30577

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ggacggttcc acggccctca cagccacagc accagcacga ccccgacggg cggcgcgggcg 180
gcggcgcat cgccgcgcaa cttccgggcg agcttctcct ccgcgtcctc cgcgggccac 240
agccacggcg gcgg 254

<210> 30578
<211> 456
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-B4

<400> 30578

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tctggcagac ggtcgggggtg gaccggccgt ctcagatact gttcctgacg gacgtgtgcc 180
aggaagccac ggcagcacag gctgcaggcc ttgaggtgct aatatctatc agacctggaa 240
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<210> 30579

<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-B5

<400> 30579

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ggacgctttg ttgagataat cttggctata cgttttttca tataccagta tggccttggt 180
taccacttac atgtcacaca taacaaaagc atctcggtat atttaatttc ttggctcgta 240
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gatttccagc tattcttccg tctgatcaag tttttgatat ttgttgcttt cattgctatt 360
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gcattcttgc ccacaggatg ggggataact ctga 454

<210> 30580
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-B6

<400> 30580

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agagcttggc gctattgctg tctacgcagg tgccaaattc cgtgcacctg tggagcccta 180
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<210> 30581
<211> 456
<212> DNA
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<223> Clone ID: LIB3067-049-Q1-K1-B7

<400> 30581

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tcctcgggag gatagcgttc tactgcttcc tcgggtccaa caccttcacg gccatcatcg 180

agctagccga gctgcaacgg ctgtccacgt cgatgaagaa gctggagaag gagctgaagc 240

accaagagct gtacaagaac gagcagtacc gcatgaagct gcacaaatcg aacgagcggc 300

tgctggcgct cgtcaagtcg agcctggaca tcgtgggtggc cgtggggctc ctgcagctgg 360

ccccgaagaa ggtgaccccc cgcgtcacgg gcgcgtttgg cttegccagc tcctcatcg 420

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<223> Clone ID: LIB3067-049-Q1-K1-B8

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<223> Clone ID: LIB3067-049-Q1-K1-B9

<400> 30583

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<210> 30584
 <211> 455
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-C1

<400> 30584

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<210> 30585
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-G6

<400> 30585

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<210> 30586
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-G7

<400> 30586

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<210> 30587
 <211> 446
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-048-Q1-K1-G8

<400> 30587

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<210> 30588
 <211> 325
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-H1

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<210> 30589
 <211> 168
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-H11

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<210> 30590
 <211> 452

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-048-Q1-K1-H12

 <400> 30590

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 aagctcaaga cccacagaag gaaccagagg tgggctgaca aagcctacaa gaagagccat 180
 ctccgcaacg agtggaagaa accatttgct gggcatctc acgcaaaggg aatcgtcctt 240
 gagaagatcg gcattgaggc taagcagcct aactctgcta tccgtaagtg cgctcgtgtc 300
 cagctggtga agaacgggaa gaagattgct gcctttgtgc caaacgatgg ttgcttgaac 360
 tacatcgagg agaacgatga agtgctgatt gctggattcg gtcgtaaggg ccatgctgtg 420
 ggagatattc ccggcgctccg tttcaaggtc gt 452

<210> 30591
 <211> 171
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-048-Q1-K1-H2

 <400> 30591

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 gcacccgagg agtttgccga gatcgccctgc cacaccaacg actagttcta ctcccgcatg 120
 gccaaagcca atgaacaagg caagctggca gtcacgact tcaaggcccc c 171

<210> 30592
 <211> 108
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-048-Q1-K1-H3

 <400> 30592

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 tctgggtgta atctaacc aa gagttgtgta acatgatcaa aactatct 108

<210> 30593
<211> 175
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-H4

<400> 30593

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caccggggcc agagcagggtc acgccccaac acgacgcacc accggcgggtg ccaaacctct 120
aggactgcat cgccacacca cgcaagccca gtctggcgcc cgacacccgc atgct 175

<210> 30594
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-H6

<400> 30594

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ctacaatatc cagaaggaga gcacctcca cctgggtgctc cgtcttcgcy gtggttatta 180
agccatcagt cgttgaagct gctgctgtat ctgggttata tagtgtctct gccattgccc 240
atggatgggtg ctgtctttca aagtatttgt atggtttgtg tcgtgagtcg tgactgagct 300
ggtttcatgg accagttgtg ttctcgttac caaaaactat cgtgcgaccg catatggctt 360
aatcatgaaa taatgttggt tgaattt 387

<210> 30595
<211> 263
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-H7

<400> 30595

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tgaacattaa aattcaattt gctaactctc tctgcatata caccctcaga ctctgtactc 120
atgtacatct ctctacatgc tcgttcatca atacaacttc attatctact accataatta 180

cattgatata ctataatcat atatcatata atatatatct actaaaacat gaattactat 240
tattaaaata cacaataaca tat 263

<210> 30596
<211> 95
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-H8

<400> 30596

cccacgcgtc cggcttcctt gatactcctg tttaaagatt tgtggattgg gtgagacaag 60
ggtgattgag ataactaagt tctgggggtct tgate 95

<210> 30597
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-H9

<400> 30597

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aaagcgcaaa gcccccaac cgcggatcaa tccgcagcat cgatggcgcc caaggcggag 120
aaaaagccgg cggcgaagaa gcccgcggag gaggagcccc cgaccgagaa ggcggagaag 180
gctccggcag ggaagaagcc gaaggcggag aaacgcctcc ccgcgggcaa gtccggtgcc 240
ggcgagggca agaagggcaa gaagaaagcc aagaagagcg tggagaccta caagatctac 300
atcttcaagg tgctcaagca ggtgcacccc gacatcgga tctcgtccaa ggccatgtcc 360
atcatgaatt ccttcatcaa cgacatcttc gagaagctcg ccgcggaggc cgccaagctc 420
gcccgtaca acaagaagcc caccatcacc tc 452

<210> 30598
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-A10

<400> 30598

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 aaacttggac ttcttggacg agcaggggtgg ctcggttgag gagcttgaga tgatgagggc 180
 tggcagttta gatgcattta ggtgatgaag aagattgggtt tatttctcac gtgtgtatct 240
 gttcatagca tcataggaga ataagtgaga tggccatttg tcaagagccg cacagattga 300
 caagtcctta ttggtgggta caagccatgg tggcttatgt gtatgcatgg gttgattagc 360
 tgaagttggt gttgaaagga acattttttg cagccatttg gtatatccat gcttagtcaa 420
 tagcggattt ggatgggaag gct 443

<210> 30599
 <211> 442
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-048-Q1-K1-G5
 <400> 30599

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 ccgcagcggg gcctacgtcg ccaggcaggc cgccaagagc atcgtggcca gcggcctcgc 120
 ccgccgctgc ctcggtcagg tgtcctacgc catcggcgtg ccggagcccc tgtccgtgtt 180
 cgtcgactcc tacggcaccg ggaccatccc cgacaaggag atcctaaaga tcgtcaagga 240
 gaacttcgac ttcaggccag ggatgggtcac catcaacctc gacctcaaga agggcggcaa 300
 caggttcac cagaccgccg catacggcca ctttggccgt gacgacgccg acttcacctg 360
 ggaggtggtc aagcccctaa agaaggcatc cgcttaagaa tgtattggga agttcactgg 420
 acatgangtt catcttcgtc tg 442

<210> 30600
 <211> 455
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-049-Q1-K1-A2
 <400> 30600

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 tccccctccc atcggcttcg ccgtgttcat ggtgcacctg gccaccatcc ccgtcaccgg 180
 caccggcatc aaccgggcca ggagccctgg gcgcccgcgt catctacaac aaggacaagc 240
 cctgggacga ccactggatc ttctgggtgg gcccctcgt gggccctggc atcggggcct 300
 tctaccacca ggtcatcctc cgggctggcg ccatcaaagc cctcggctcc ttcaagagca 360
 acgcgtgatg agcggggctt ggctgtggag caatggcggg cgacctacgg gcggggggcc 420
 gtgagcgaag agaatgcat cattcatcga tcgac 455

<210> 30601
 <211> 397
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-049-Q1-K1-A4

 <400> 30601

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 tccgcacccg caagttcatg accaaccgcc tcttgccccg caagcaattc gtgcttgagg 180
 tgatccaccc cgcccgcgcc aacgtctcca aggcggagtt gaaggagagg cttgccaagg 240
 cgtacgaagt gaaagaccca aacaccattt ttggcttcaa ggtccggaac cactttggaa 300
 gaaggaaggc cactggtttc gggcttatct accacaacct tgaagctggc aagaagttcg 360
 agccgaaata ccggcttata aagaatggtc ttgctac 397

<210> 30602
 <211> 408
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-048-Q1-K1-E9

 <400> 30602

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tgctggcggt ggtggtgggc ctctggtgg cgggcccgt gttcctgggc ggcgggcgcg 180
aggcgctgac ggaagccgtg gcggagctgc tgagcccgtt ggggctctc ctctccccg 240
tgtgcctgct gttcctcctc cgcctcctct cgtccgaccg cggcgccgcg gcgctcgccg 300
acgccttcgc ctctgggggg tccccgacg ccgtccaccg cgtgggaggg tccccggtcg 360
gcgtcgcggt cttgctcctn ctcatcctcg cgctgctcta ctaccgat 408

<210> 30603

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-F1

<400> 30603

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agtgagaggc gtcaataaac taaacaaaa acaccagcta tcaaatacac tatcaatctc 120
ccagattgtc catactctct ccttcatttt caactaagaa aacctgctta ttccatataa 180
atcttctgct cgtattgtat ccagctctat ccgttacctg agtcttgaca ttctggattt 240
ttacacttgc acagtgcatt attgatttta gaccatgttg acttgaactt ttgttaatat 300
ggtatattta cacccttatg caactgaact ttgtgctcaa gatactgcct ctcatctgct 360
ccttttcttc atctacaacg cact 384

<210> 30604

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-F11

<400> 30604

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ccttcgacag ggatctcatt ggccctgccg tgtacttcgg tctcatgggt gatggccagc 120
ccattggtcg ctacgacgac atgtgggccg gatggtgtgt gaagggtgtg ggtctcgctg 180
ttcttgcttc cacagctagt tacttcttac caaaacata atgtccactg gactgatgat 240

gattttacaa ctgaaacaaa ataacttagg tcattctgca ccacttgagc ctgggagtca 300
 agactggctt gccatacatc tggcacagca aggctagcaa ccccttcgtt aacttgaaga 360
 aggaattcaa gggcatcttc tggcaggagg acatcatccc cttcttccag aacgtgacca 420
 ttcccaagga ttgcgacacc gtc 443

<210> 30605
 <211> 62
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-F12

<400> 30605

cccacgcgtc cgcccacgcg tctctccact cgtccgcca cgcgtccggt tctagatcgg 60
 ga 62

<210> 30606
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-F4

<400> 30606

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 ctccatggag taccacgaga gcagcagcca aggtccgccg cagccggagc tgttcagcat 180
 gcccggcgtg gagagctcgg gcttgcgttg tgcggtgctg gggcaggcgc tgtacggtgt 240
 ctgtgttccg aaggacgtag aagacggctg ggacctcgcg ccgccttcgg cgtcgtcggg 300
 tgcgttggtg ggtgctgctg ctgctgccgc gccgcctcgc cgtggttagct tccgtccgat 360
 gagatgtgta cggcgtcga gattgtgata ttgtgcgtgc gtttttagttt aaaaattaag 420
 gtgagcaaca aat 433

<210> 30607
 <211> 412
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-F5

<400> 30607

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gctgctgttg ttggtgttga gcatgagggtc aaagggtcaag gaatttatgc ttttgtaact 180
ttggtggatg gtgttccgta tagtgaggaa ctacgaaaaa gcctcataat gacagtgcgc 240
aaccagattg gggcatttgc agctcctgac aagatccact gggcaccggg acttcctaaa 300
acccggagtg gcaagatcat gcgaaggatt ttgcgcaaga ttgctgcacg gcaactggat 360
gaacttgggg acataagcac cctcgctgaa cctgctgtag ttgaccagct ta 412

<210> 30608

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-F6

<400> 30608

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agatgctgtt aaagctgcat ataatcgcta catgacatat ctggagtcct ttggccctga 180
ggaaaattat ctaagaaaga aggtggagac tgagttgggc aaaaaatga tacacctcaa 240
aatgagatgc agtggcatag gttccgagtg gggaaagatc tccctgattg gcacctcggg 300
gatctcaggc tcctatgttg agctaagggc atgatgtgaa gcctgcagat cagaacctatg 360
gaaattatcg atgagctgag gaagtctgta gatcagaata tgccgttcta cattttcctt 420
tcccccttgt agctaccatg gcaat 445

<210> 30609

<211> 277

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-F7

<400> 30609

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ttcttggtcc atttttactt tccttttctt gcaccttaatt actttttatt tactgtcact 180
taaattcatt tcattgtcca tatttttaca acttttcaaa cttgaaaaac ttttcgcttt 240
ttccatcttt ttcaatttgc tgtacttccc ttttttt 277

<210> 30610
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-F9

<400> 30610

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ctccagctgc gctgcttca gctcatgcaa ctgcatgtcc cctgacgtgg agaccgccgt 120
cgccagcagc atcaagacca tggctcctgc tgcgcccagc accaatgcca gcgccagcgg 180
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ctgcggtgct tcctgctgca gctgcaactg agccgggtccg tccggcccgg cgattgcgca 300
cgagagtcga gaggacgacc acgactaagc gtataaatat aattaatagc cacgtctaaa 360
ttagatcccc gcaactgcac cccccattat cgatccatgg tccctcctgg ggttcatgtt 420
c 421

<210> 30611
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-G1

<400> 30611

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tggtggctga agaagctgag gcagccgacc agctgtcaaa ggcactaaca tttcccagat 120
tgtccaagtt ctataattca ttaggaagaa agaaaacctg catcttccag ctgtatttgc 180
tgctcgtatt gcagcacaat caaaccgtaa tctgagacgt gtgatactgt tttttcagac 240

ttgcaaagtg caacagtaat ctgagacgat gaggacttga acttgggtgg tttgggtata 300
 ttcacaccct taaccaactg aactaggagc acaagatacg ccttggtatca aaagctatatt 360
 ttcattctaga aggcactgct tccaggctcg 390

<210> 30612
 <211> 450
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-G10

<400> 30612

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 cagaaggcct ggaggaagaa gcgaaagtat gagcttggtc gccagccggc caacaccaag 180
 ttgtcaagca ataagacagt gaggagggtc cgtgttcgtg gaggtaacgt gaagtggagg 240
 gctcttcgcc ttgatactgg taactactca tggggaagtg aagctgttac ccgcaagacc 300
 cgtatcctcg acgtgggtcta caatgcatca aacaatgagc ttgtgaggac acataccctt 360
 gtgaagagtg ccattgtgca agttgatgct gccccattca agcagtggta cctcactcac 420
 tatggagttg acattggtag gaagaagaaa 450

<210> 30613
 <211> 446
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-G12

<400> 30613

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 tggagatgac aacgtaccat ttatttgtac tatggactgc ttaggtgcaa aggagctggc 180
 caaggatttt gttgtatctg ggacagcatc agaatctttg tatggtgctt gtgagtccat 240
 gtacaagccg aacatggaac ctgatgaact cttcgaaact gtatcccaag ctctgaattc 300
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tgaagtgagg gagcatgtga ttaagagcag gatggactaa atcatggcca ctatcactat 420
aattcttagc tggtttccaa tgctta 446

<210> 30614
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-G2

<400> 30614

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aaacatctct tcccaaatac tctcctcaaa catccattaa aaccctact ctaccaatca 180
atcatcttca cttttaaact cttaactata cctctaaca cataccaaat tacattatat 240
atataattca aacacatcat ttctcactct ttatatcatc acattatcac caactacact 300
catttaccta taacacaatt acc 323

<210> 30615
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-G3

<400> 30615

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catcgtggcc agcggcctcg cccgcgcgtg cctcgagcag gagtctacg ccatctgcgt 180
gccggagccc ctgtccgtgt tcgtcgactc ctacggcacc gggaccatcc ccgacaagga 240
gatcctaaag atcgtcaagg agaacttcga cttcaggcca gggatgggtca ccatcaacct 300
cgacctcaag aagggcggca acaggttcac caagaccgcc gcatacggcc actttggccg 360
tgacgacgcc gacttcacct gtgaggtggt caagccccta aagaaagcat ccgcttaaga 420
atgtattgag aagttcactg gacatgagga tcattcttct ct 462

<210> 30616

<211> 295
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-048-Q1-K1-C5

 <400> 30616

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 agaaggttaa tgcatttcac accgactata tgggttactcc attacatcgg tacatcaatg 180
 atccaaatgc acatgcaatc attaataatc aagctacctt acacattact gcgataacga 240
 acaactcata ttttgaccca tcacattatg cactacattg tcactataaa catcc 295

<210> 30617
 <211> 286
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-048-Q1-K1-C7

 <400> 30617

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 cggccggggc ctacccttca agatcttggc ttcattgattc ttccggagct tgggaaagaa 180
 aggggttaca tcagtgagac attgtttaca ttcgtcttcc tcaccttcgt ttagtctgaa 240
 ggatgaaagg atgaaatgtc cacaaaacac tagttctaga tcgcga 286

<210> 30618
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-048-Q1-K1-C8

 <400> 30618

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gcgaggctct cgagtccaag attatcctcg atcgggagac gcagaggtcc cgcggtctcg 240
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aggagctgga cgcccgcaac atcacctgca acgaggccca gtcccgcggc ggccgtggag 360
gcggcgccgg cggtacggg ggtggccgtg gaggc 395

<210> 30619
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-C9

<400> 30619

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gtgcgccgtg gagcttgga tccctacggc gatctaccgc catggcgggg ctgcctcagc 180
cgctgagctg gtcacggcgc tgtctctccc ctccactaag ctgccgttcc tccgccgct 240
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gcggtaccgc atcagccccg tgcctacct cctggtggac ggcatccctc acgaggacca 360
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agggcttgcg gaat 434

<210> 30620
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-D1

<400> 30620

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gccaatcccc atccagccag accgcccggc atgacggacc accgcgacgt gatgttgccc 120
ttgtccctcc aatacatagc caccctgccc ctctctctgc tcgtcatcgc gtccgccgtt 180
tcctgctctt ccttgccgcc ggaggacggc atccgggtcg tctctgcaga gaaaagaatc 240
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gcctctgaag catcacgagt tctcctcgcc ttcacgccc cagagtttca acatctctct 360
attgtcaagg ccacaagagc ggaaggg 387

<210> 30621
<211> 271
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-D10

<400> 30621

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gtccagatcc aggggcgtaa catggcatca aaacgtatcc tcaaggaatt aaaggacctg 120
caaaaggacc ctccaacgtc atgcagtgtc ggtcctgctg gtgaggatat gttccactgg 180
caggcaacca tcatgggtcc tctgatagt ccatatgctg gaggtgtctt cttagtgaac 240
attcatttcc acccggacta ccctttcaaa g 271

<210> 30622
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-D11

<400> 30622

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gttggcacia gcatcacagt tcgtcacttt gttcctggac aatttgttga tgtcactgga 120
atcacgaagg ggaaaggttt tgcagggtga atgaaaagat atgggtttcgg tgggatgcct 180
gcatcacatg gaacatcttt ggcgcacgc agtgggtggct ctactgggtca aagagatgct 240
cctggaaggg ttttcaaaaa cagaaaaatg cctggacgca tgggtggtgt gcaacgcaca 300
gtgaagaatg tatgggtcta tcaaataagac ccagccagga acttactgta tctgaagggc 360
caggttcctg gtcctcaagg tagctttgtt ttcgttaagg attctatata taagaaacct 420
gacacggcta tgctccatt tctac 446

<210> 30623
<211> 447
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-D12

<400> 30623

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gatgggttga tgttcatttt cgaggtagtg ctcaaaaccc tgggggtggag gaagttgaat 120

taactacagc gccagatgag catggtggaa ctcatgtggg tcagcaggta ttcttgctga 180

ctccacctct gagtgtgact aaaggagaca acgttaacgt ttccttctcg atggttcgct 240

cgaaggaaaa ccatcggctt atggatatgg agttcacata tgaattgcac gagttatctg 300

gcaagaagca cccagcagtc aaaaccaaga tgtacttaga gtagaacaag atggaaagac 360

ggaacctcac gacgccgttg ctgaaacctt tgctcagaag ctgagcatgt agtgtgcttg 420

ttacacccat gatgggtaca ttgagac 447

<210> 30624

<211> 412

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-048-Q1-K1-D3

<400> 30624

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cacacgctgt cttgtctctc agtcccagag ctttcttgga tcgagaggaa tccactggaa 120

atattgcaat tgtagtagag aactgtatcg tccgacgaag gtgcatgggtg ttggccatgg 180

gtcacggcag ggaacagaga cgagcaggtc ggcgctctcc cccagctca ttgatcctgt 240

cctcgctata aggtagtctt gcggtggcct ccgaatttca ctcgatcgaa cagacatga 300

agcggccacg cggcgccagc cccctcttgg ctgcgatgac caatccgaac gatgatgggt 360

acggcgtggt cgggatggaa gcngacgcgg acgcggacgc ggacgatgag at 412

<210> 30625

<211> 160

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-D7

<400> 30625
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taaaatataa aaacaaaaaa aaaaagaaaa aaagaggaaa aaggtaaaaa taataaaaaa 120
aaataaaaaa atcaaaaata aaagtggcgc gccgttttaa 160

<210> 30626
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-E1

<400> 30626
cccacgcgtt cgcccacgcg tccgcacac atcaattgtt ctaccgtgat tcgcagctgg 60
gtcttggtca tgtgcggtgg gtttcttttc cggacgttca tattcaggcc gcttgtttcg 120
tgccgacgcc ggggccagct ccggcaccgt ccggctctc cgcgacgaac acgaacgact 180
cctccgctgc tcctcggcc a gccaagccca gcgcattccc acccccaatg tacggtggtg 240
tcacccccgg cagtctccag ccacacgagt gcggcgggcg gtgcgcgggg cggtgctcgg 300
cgacggcgta ccagaagccg tgctctttct tctgccgcaa gtgctgcgcg gcgtgcctgt 360
gcgtgccggc gggcacctac ggcaacaaga acacc 395

<210> 30627
<211> 389
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-048-Q1-K1-E10

<400> 30627
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gcaggcccat tcagctgggt gtggctccgg ctgtggtggt ggctgcggca gcggcatgct 120
catcgaaggc tccaaggcca acaacgccat gtccggtggc tgtggctctg gttgcggtgg 180
tggtatgcggc agcgagcttc ttgacgcca ccgcacctc gccgccgtcc agaacgcgca 240
gcgcagcgcc aagcgccgcg gcgcggggcc cgcgaggccc gtcattgccg tcaccccgac 300

caccaccttc gcgctccagg tgccatccct gacgtctctg gcgcacacnc ttcgnctcgt 360
cgacgcccag ctcgtgtgga tcgtcgtcg 389

<210> 30628
<211> 110
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-E11

<400> 30628

cccacgcgtg cgcccacgcg tccgaccaca cgtcctgcc cttgtccgct gttcaaaaa 60
aaaaaggctg tagtcaactt caactaatac aactacaata aaccctaac 110

<210> 30629
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-E12

<400> 30629

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gtaatgtctg aggctaata gaataaaaca tctggagact tcaaagaaat gggtagcatg 120
ttggccgacg aggtaattgc cttcctgaag aagaaaatgg ataagctttc tagatatgga 180
ggctgcaaag agctgaagtt aagcatcgtc atccattcca ttgtgaacat catcattaga 240
agtgccctgg cagaacctgc atcgagctc atacttgaag aacctgtaca cttacatgtc 300
aatatcaggg cctaacttga gttactgcta caggccatag ttgatgggca attctggact 360
tctggtgctg aaatagctca 380

<210> 30630
<211> 161
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-E3

<400> 30630

atcaaattat gccacctcc tctttgtatg ttgaggctcc atgtgcgagc acgctgtctg 60

tcgtgacacc tggttcgtca gatgttttgt caaacttgct tggcttgatt ggttgtactt 120
gtacctgtaa gagctgatag ttatatgaat ggcttggact g 161

<210> 30631
<211> 440
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-048-Q1-K1-E4

<400> 30631

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actggtgcac ttgtacgtgt agagcttgat tcattgatga agattgtcac agttaaaaga 120
gacgatatcg ctgacacacc tactgttgca acaccattcc gtgaacctcg ttattcattg 180
ggtggtgaaa ctccaatgca cccgtctcga acaccacatc atgcttatca gactccaatg 240
cgggaccctg gagcaacacc aatacatgaa gggatgcgga ctcccatgcg aagtcgagcc 300
tgggctccta tgagccctcc gagggataat tgggaagatg gaaatcctgc tacttgggggt 360
agcagtccag cttaccagcc aggaacccca caagctcggn catacgaagc cccacaacc 420
tgatcanggt gggcaaacac 440

<210> 30632
<211> 132
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-E5

<400> 30632

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aacaatgagg atgggtccaa tgtgaaacga atgggtggcta agaataaaga cccgtcgact 120
cctgttctct aa 132

<210> 30633
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-C4

<400> 30633

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gtggcggcga tggagctcga gatcctaggc atgaatttcg ggtgcgtcct cgcggctctg 120
tccgacgcca agatccccga caagggctgc ctgctcccg ctcactcttaa gctgctcggc 180
tacgccatcg tcgccgcac caccaccgtg aagcttcccc agatactgaa aattttgaag 240
catggaagtg ttagaggact aagtgtggca tcctttgaac ttgaggttgt cggctacaca 300
attgctttgg catattgtat tcataaagga ctccctttt cagcttatgg ggagctagct 360
tttctgttaa tccaagcaat tattttggtt gcaatcattt actattactc accaccaatg 420
ggaacaaaaa catggatgaa agc 443

<210> 30634

<211> 243

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-E6

<400> 30634

cccacgcgta cgcccacgcg tccgcccact cgtccgatgg cttactaaaa aaagaaaaag 60
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaat 180
aaaagagaga ataacatact aacatactca aaaaaaaaac aaatatacta ataaaaaaat 240
aat 243

<210> 30635

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-B10

<400> 30635

cccacgcgtc cgagtttatc taccggtatt cgtcgaagga gcgaatctta gcaggggtgg 60
gatgcacttc tctcagggcg atggtgaagt ttcgttttgt ggagcaattg aaatgagtgg 120
attccttgag ctcaggtgcg agatcataag aggcgggatg aaggaatact tgaccccagt 180

tgggtccgaca ccgctacacg tgaaccctat ctttgagatc ggtcctgtcg agccgcgctt 240
 ctcgagtggt ctagtggttg agggcataag cgtggatgaa tctgggaagc agcatttcct 300
 tgatgcgtca gttgcttaca agcgtgcagt cctgaacgcc attgagtaca ttgctagatt 360
 tgggtactca aaggagcaag tgtatctctt actatcatgc tgtccctgtg aaggtaggat 420
 ctctggaata gttgactctc ctaatgc 447

<210> 30636
 <211> 473
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-B11

<400> 30636

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 gaagtttgct tcagtcccat gtggcggggg cggggtggct gttgcggcag ctgcccctgc 120
 tgctggcggc gtcctgcag ctgagggcga gaaagaagag aaggtggagg agaaggaaga 180
 aagtgatgac gacatgggct tcagcctctt cgactaagcc tgtgcaatag tcaagagtat 240
 tgtttttgag tcgcggaagc agaggggaaga aaaatcgtag tcatgtttgg actttaactt 300
 tgttttatgt tggaaagtac ttgaaagact tttcctgtgg taattctagg cgtaggttgc 360
 tgtgctggtt ggggtttact ggtgaaccag agtttttcta tctcccacta tgaatttgtt 420
 acctcaagtt acctggatgt tcaactatctt gttggtacat gtcgattttg cct 473

<210> 30637
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-B12

<400> 30637

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 aaagatggct cgtcgtggat tgatggaaca ggacttaagc aaactggatg tgacgaagct 180
 tcacccctg tcacctgaag ttatctcacg ccaagcaaca atcaatatgg gtaccattgg 240

ccatgtggct catggaaagt ccactgttgt taaagctata tctggtgttc agactgttcg 300
 gttcaagaat gagctggaac gtaacattac tataaagctg ggttacgcta atgcaaaaat 360
 ctacaaatgt gaggatgaca gatgtccgcg accaatgtgc tacaaggcct atggaagcgg 420
 aaaagaagat agccctctat gtgat 445

<210> 30638
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-B3

<400> 30638

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 gttgggcaag gaggttacgg caaagtctac aagggaattc taggcgatgg agcacttgta 120
 gcaatcaaac gagcacacga ggattccctt caaggttcaa gggagttctg cacggagata 180
 gagctactat caagattgca tcatcgcaat ttggtttcat tggttggcta ttgcgatgaa 240
 gaggatgagc agatgctgga ttatgaattc atgtcaaatg gcactttacg tgatcatctt 300
 tctgccaaagt ccaagagacc tctaagtttt ggcttgaggt tgaaaatcgc attgggtgct 360
 gcaaagggaa tttttgatct acatactgaa acagatccac ctatatt 407

<210> 30639
 <211> 257
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-B4

<400> 30639

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 gatacgaccc taatcgaaat gcatacattc gtctcatata ctatggggat ggtgagaaga 120
 gatatatattt acatcccaaa cgggctataa ttggagatac tattgattct ggtacaaaag 180
 ttcctatatc aatgggaaat gccctacctt tgaccgatat gcccttaggc acggccatac 240
 ataacataga aatcaca 257

<210> 30640
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-B5

<400> 30640

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aacggtcgat ctttgcattg cagcagcagc tggctccaag gggcgggcca tcgctggaag 120
cttcgtcagc cgcgtcctcg ccggcaaggc cgcctcgccg aggagggccg tgcacgcctc 180
ggcgtacgac aagaacctgg aggaccaggt gcgcccggcg ttcgtgccgg acgatgtgat 240
cggcagcgcc gggagcccgg acaagtactg gagccccac cccaagaccg gcgtgttcgg 300
cccggcggcg gtggaccca agctggccgc tgggtggcgcg ccggacgccg gcgcggatgc 360
tgc 363

<210> 30641
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-B6

<400> 30641

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ctgtcgggag caggcaatgg cgccgatct aagcgaactc gccgccgccg cggcagcccg 120
tggcgcctac ctgcggcg tgggtgtcgc ggtcctctc gctgcctcct tcctcccagt 180
agccgagtcg tcctgcgtgc gagataactc attggtgaga gacataagcc aaatgccgca 240
aagcagctat gggattgaag gattgtcaca tataacagtt gctggtgcgc tcaatcatgg 300
gatgaaggag gtggaagtgt ggcttcagac aataagtcca ggtcaaagga cgccaatcca 360
caggcattcc tgtgaagaag ttttactgt cctcaaaggg aagggtacgc tcttgatggg 420
atcaagctca ctaaagtacc 440

<210> 30642
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-B7

<400> 30642

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ctttgtcacg gatgcaaagg ccaaagacat gaggtgccag caccttgatg gaactgccat 120
tgagccacct acctgtccaa aatttggtgt taaccccggt gccacactct gtctccactg 180
cataatcaaa caaggcctaa gtacaaccct taatcgagat cccaaaatct gcccaggcct 240
cgtactaaga gtgatcaaac aaccagggtga tttttcacia atttgaacta tgagatttta 300
tctgcactga attgtttctg tttctccaac gccctgcagg ctgctttttt cgatctctta 360
tttcttttgg attaggttca gaatttcagt tttcatgcat tcattcatgt tccaggcagt 420
tttatatcct gaaaagaatt 440

<210> 30643

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-B8

<400> 30643

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gtcgagcact tggattatgt gatcgatgtg cagagaagtg gttccaaggg cacaagtgtg 120
ccaacatggt gcaacttcac gccattgagg aagtctagga tttgctcacc ttggatgaag 180
ctatagtgga agtcattgaa ccagcagagg aactgatgat ggttgatcc ctgtctaagt 240
cggcatggtc cggatctgac acgatatcaa ccatgagatt acagggtcag attcagcgac 300
ataatctctt ggttcttatt gattcagggt cttcacatac tttcctcaat gacagtcgtc 360
gaccactatt gttcggagtc caagaattga caacaccaat taca 404

<210> 30644

<211> 441

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-048-Q1-K1-B9

<400> 30644

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gctcgccgcg cgctcgggt cctcaacga catctcgcc tgcataaaca ccaacgcgt 240

cggcgcgcgtc gccgtctccc tcacagcgc cgccgcgcgc gccgtcgctt cctccgaccc 300

ctgcctcgcc ttgcagggcg ccaccgtcct ggacgacctn ctgagatcct gccccgagaa 360

catgttccag taccagctct gctagctcca gaccgcgcga agtcaccatg gcagcgcaaa 420

acaccttctt ttcttttctt t 441

<210> 30645

<211> 166

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-C1

<400> 30645

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ttgtatgtag cttttttgac gtgtagcag cttggtgttg agagcaatgt acacctgtac 120

tgttggttg gttgtgatta tacacgcggt tttttttgga gctagc 166

<210> 30646

<211> 448

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-048-Q1-K1-C10

<400> 30646

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acaccaaact tttttggtat attgcaaagt ttggttagta tttggtccaa gaaagagttt 120

attcagtcatt attcagtggg gcaacaagct tgtatccttt gagccactga aaattacatt 180

gcttcatttt ttatacaagt attatttggc atcattctcc ttaataaatg cagatatcac 240

tgcagcaatt ggattatggt tggaaaagct aacagaaaaa gaattagaaa caactaaaga 300

tgtattgaat tctattcttc aaggagtaag ctgtgagttc acccttgtac attagcttac 360
 cagaatttga tatgagtaac gataacatct tcttgctgat ttgttnttgt cactctagggc 420
 aggttagaga gcccaattga tttattac 448

<210> 30647
 <211> 449
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-048-Q1-K1-C11
 <400> 30647

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 aggttagcta tagcttgac atctatttaa ctaactaact aactggctag ctagctcgat 120
 cggcagagca aagcgaaagc agcaagaagc aaagcaatgg agaaccctgc gagtgtgcta 180
 gttctaccag cgcagttcac caaactcacc ttccgaaacc tgtacatccg ccgggccggg 240
 ccgggcagca gggagataac cgaggagggc aggtgcgacc tggacaagag atacgtgagt 300
 gacttccccg tctacgacgg ccgcgggccc gacgccagcc ttgtggccccg cgtgcagggg 360
 atcaccagcg aaatcgggaa cgcgcaccaa ctgttcgtcg ttgttttcga caccgacagg 420
 ctcaagggct ccacgctcgt caccaatgg 449

<210> 30648
 <211> 405
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-048-Q1-K1-C12
 <400> 30648

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 ggtggcggtt cccgtccccg ctctaaacag cacagagggc gacgaaggag acagccctcc 180
 ggaagacgaa ggacgaggca ggccgagcta ccagaggacc ttgtcaggcg ggctgcagag 240
 cccagagcc acccaagtgc ccagagggc gatcctcgag aggatgaagt ccaagggcga 300
 gttgtccaag tcgtaccagc tcgggcacag gctgtccctc aaatggagca ccggggctgg 360

cccgaggatc ggggtgcgtca aggactaccc gatggagctc cggat

405

<210> 30649
<211> 314
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-C2

<400> 30649

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gcttcgaaag aggatcgact gcaggagcgc ctgagaaggg ctcgagcctt gaatatgcct 120
tgcaaaatga ctcgactgca cagtaagctg gtgtgacagc aactgggaac aacaccgatc 180
tcttcaagga cttgctaagc tacttggtac agtaaggcac accgtatggg acacctgatc 240
cttctgggta gatggagggtc atcatcgaca tgatttgatc actgtaacaa tcactatctc 300
actgattgat cagc 314

<210> 30650
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-C3

<400> 30650

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gagatggact tatttcgaac gaccatttg accagaaatt aacatgctct tgtggtttgt 180
agatgaatgt gcatcagcgt cggcctgtac tttctgattc ttacaccgtc gatgatatat 240
agaataatgt ttgtatcttg tcaatttacg gaacagacat gaaattcaat gcaggtcact 300
ggtttctgaa tcaaaaaaaaa aaaaataaat taaaaaaaaa ttaaaaaaat attaattt 358

<210> 30651
<211> 314
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-B1

<400> 30651

cgccaatggt gtcaccaac gttctggctg cacttacctt gagaagcctg acttcaactg 60

gagccgggtc agaatttaga gtcttatggc atctgggtctg tataattagt cgggttcgcc 120

ttgggtctgtt tacggcacat tctagtgtca ccgtacaggt caaatgttca tgcgtgtaag 180

gcgtgtcata ctgtcatggc actctacaag tgcattgtgc agaaacgtgc atgcgtctct 240

cggttacgga ctctttacag ttgcatctaa aacaattcaa agcaccttgc ggtgcacctt 300

tgaaaagtgt gggc 314

<210> 30652

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-H4

<400> 30652

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atggaatgtg cagatcgagc caaatcaaaa agaggaacat cattactgga gctccaattc 180

atactaccg tgcactatat atgaacgaag cctgcctaga gctcaacatg aagctgaatc 240

agcagcatgt caaatcgaaa tagatggaaa cgacttcaca caacaataga gcacgctgta 300

ctggctacaa atatgtttct ccaactgctc ggagaaagac ctactgaaca atactagata 360

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<210> 30653

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-H6

<400> 30653

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aggccactgc taccctacta cgtaccctcc tctttgtgtg ctgccatccg tccccgttag 120

acgatcgagg agagaataac gcagagctct ctgctcccg cctgtcttct gccgtcccg 180

ccgtttaatt tactagtgtg ttcgtcctat atgttttagca gcagcaggtg tattgtgcgg 240
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<210> 30654
 <211> 430
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 ggcggcggcg ccgccaaca agggcccgcc gaacgttacg gcgatacctg agaagggcgg 180
 gcagtacacg acgttcatgc ggctgatgaa gtcgacgcag caggacacgc agctgaacgg 240
 ccagctgaac aactcgttcg gcagcgggta cacggagttc gcgcccaccg acagcgcctt 300
 ctccagcctc aagcccggca cgctgaacaa gctgtcgcag catgagcagg tgtcgtggt 360
 gcagtaccac gtccctgccg agttctactc gctcgactcc ttcgagaccg ncagcaaccc 420
 cgtgcgtacg 430

<210> 30655
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 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-047-Q1-K1-H8
 <400> 30655

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 accaataagc tagctcttgt tgttgttttg tatgtttgat tgggtgtccc ttcccagtcg 180
 agatggaata aaataaatca tcaggcgcca at 212

<210> 30656

<211> 441
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-047-Q1-K1-H9

 <400> 30656

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 tgttcccaaa gatcttcccc gagcagtaca agagcatcga gaccgtcgag ggcgacggca 180
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<210> 30657
 <211> 327
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-048-Q1-K1-A1

 <400> 30657

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 ctggtcgccg tcctcgtggt cctggccgcg gcggtggcgt gtcgcgcggc gcgccccgtc 180
 cccgcgcagc agcagcagca ggcgggagag gacgtgaagc ggccggacac gctgcacgag 240
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 atcggcgggc tggaccacag cattccc 327

<210> 30658
 <211> 415
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-048-Q1-K1-A10

<400> 30658

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gtgtctgac catccttccg ccacttggt gacaaatagc cagcggacga ggatgctttc 120

tttgctgact acgccgaggc ccacctgaag ctttcagaat tgggatttgc tgaggcgtaa 180

agtgaagag aacgaaccag aagagtgtgg tggttgtcgt cggccggcag gccttgtgtt 240

tttgtgtct gcttttctct tgaatgaaaa tgtgatgaac tctgctgaag atgtaatgtg 300

tatgttgtca tggttcattt ttctatttta tttatctata atatctgtcg gagaagcttt 360

gatatgaagc gggatctggt tcggaacact gattaacgat gccaatgcct tcaca 415

<210> 30659

<211> 446

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 30659

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actgaccgct ggggtgttccc cgagaccaac actggcatca ttgtccttgc tgagggtcgc 120

ctgatgaacc ttgggtgtgc tactggccat cctagctttg tcatgtcctg ctcattcact 180

aaccagggtca ttgcccact tgaactgtgg aaggagaaga gctctggcaa gtatgagaag 240

aagggtgatg tgctcccca gcaccttgat gagaagggtg ctgctctcca cttgngcaag 300

cttggtgcc agctgaccaa gctcaccaag tctcaggccg actacatcag cgtgccgac 360

gagggtcctt acaagcctgc ccactaccg tactaggcag ccagcacacg gcttgcagct 420

cactcgggcc cgtgtgtgct atgaag 446

<210> 30660

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-A2

<400> 30660

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tgcgcgtcca acatatcggt gatgtgattg atattttgca aacaaccaca catcatctat 120
 atgaccctga tgaactcctg acattcgcgt ttgacaagat tggttcaatg ccaacaaata 180
 caatcacaaa ggaaaggaaa aagcaggaga ctgttgcctt ggctgagctt gatcaaagaa 240
 caagacggct gagttcactc aagatggatg gatagtttgt aaaatacaag ttcttgaaag 300
 ctgtagtctt ggcctattcg gcacctgggc ccacagcgta tgcttcactg agcgaaaaat 360
 catgggtcta ccgaatactg ggagatggaa agctgcagta tgtgtttgtt gaacacgagt 420
 ttttgactt catattgtgt gctttt 446

<210> 30661
 <211> 455
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-A3

<400> 30661

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 tgtttacggg ttcatgtcgc tgggctttct gatactcactc attgtcacca tatgtgtaac 180
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 cttctctgct gcttccactg ccgcgtatgt ttacctatac tccatatatt attaccacat 300
 gaagaccaag atgtctggat tctttcagac cagcttctat aacggctaca ctctaattgt 360
 ctgcctacgc ttatgaacac tatgctgtgc cgactagtat cttggatcga catttggtgt 420
 gaagaagatc tacaggaacc ataagtgtga ctaat 455

<210> 30662
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-A4

<400> 30662

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ttagctatat acctgatgga catccacatt tggtagactc ttttatcagc acttggttgg 180
 ggcgttatgg gtgccagaga tcgccttgga gagattcggt caattgaaat gcttcataaa 240
 cgttttgaga gctttccaga agcgtttgct aaaaaccttt cgcgttcaag gatacctagc 300
 agacgcattg atcgtgtaaa tgaatcagaa attacaacta agacgtatgc ctcaatattt 360
 tccccatttt ggaatgaaat tatcaagagc ttgcgtgaag aggactatat cagcaacagg 420
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<210> 30663
 <211> 278
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-048-Q1-K1-A5
 <400> 30663

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 catgcctgct attttctatg gaagcagcta tgacacatat gcccttcaa ctctatctac 180
 aactgcttcg tcagcaaaga caatcgatga catgatcacg ctctgtaaac taggataaac 240
 actttctgaa atacctacag aagtatacaa tcagatct 278

<210> 30664
 <211> 412
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-048-Q1-K1-A6
 <400> 30664

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 acgctggggc gtccaagacc taccgcgagc aggctggcac cgtccgtaag aacggcttca 180
 tcgtcatcaa gaaccgtccc tgcaagggtt tggaggtttc tacctgcaag actggtaagc 240
 atggccacgc caaatgccac tttgtcgcca tagacatatt caatgggaaa aagcttgaag 300
 atattgttcc ttcacacac aactgtgaca ttccgcatgt gaaccgtact gagtatcagc 360

tgattgatat ttctgaggat ggatttggga gccttctgac ttcatatggc aa 412

<210> 30665

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-A7

<400> 30665

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ccgcaactat cctaattggct cgcttcgccg tggtcgccgc catcgctgcc ctctcgccg 180

tcgtcgcggc ggcgcaggcc ccggccgcc aaccgaccac agctcccaag gccgcgcca 240

ggatggcccc gctgccgcca cccctgtgc ggtccccggc caccgtcccg gcgcccggcg 300

tcaagccgtc gaccgccgcg gcgcccagcc cgctggcctc tcttcccgcc ccgtccaccg 360

aaggccccgt cgtctctgcg ccgttcgtga aagccccgac cctgtccgtc ttc 413

<210> 30666

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-H3

<400> 30666

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agattaacat gactactgga gctacaattc atacaaccag tggactatat atgaatgtaa 180

gcctgcgtaa agttcagcaa gaagctgagt tagcgctgag cgaatcgaat tagatggaaa 240

cgacttcaga caagaataga gcacctgaac tggctacaaa tatgtttctc cagtttctcg 300

ttgaaagctc tactgtacta tactagatgt caatgcgtcg gcatacagat tacagattcg 360

cttctcttga aacatgaaag gacacctgcg tggctgattc gtttggctat tcgtgtgt 418

<210> 30667

<211> 443

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-047-Q1-K1-F9

 <400> 30667

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 ggctgctcct gctgcagctg caactgagcc ggcccgcccg gcccggcgat ggcgcacgag 300
 agtcgagagg acgacgacga cgaagcgtat aaatataatt aatagcagcg tctaaataag 360
 atcctgtcaa ctgcacccgc cattatcgat ccatggctgc tcttggggtt catgttcac. 420
 tgtgtaacgt gctcgcngtc atg 443

<210> 30668
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-047-Q1-K1-G1

 <400> 30668

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 aagtgcagcg atcaagtttg cgctaacatt ggcacgccta gccagaggta caaactgctt 180
 ctcgatgcag gggatgagac ggggtgacaca gacttcatcc tctttggctg gatggcgcaa 240
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 gatccaatca cagatctgct cgagaagacg tatctatgga atgtgagttt ctctgaccac 360
 acaatcaata ctggaaatat ttgtttccag gtcaacgcaa tcgtggcaga gataggta 418

<210> 30669
 <211> 453
 <212> DNA
 <213> Zea mays

<400> 30671
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 gtaaaagtta aaattcaaaa aaaaaaaaaac atgactccca ttttat 106

<210> 30672
 <211> 455
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-047-Q1-K1-G2

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 cagcaacatt ttcaagacca ggattgaagg tgcaaaccatc gctgatacag ggcttacaga 180
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 cggcaaaacta gtcattccct tggagaatgg aaacagtctt actttgcaac ttgataagga 360
 agcagacaag gaattcatgt ccagcttggc tttccttctt aagactattt gaagggcgat 420
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<210> 30673
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-G4

<400> 30673
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 cttctgaaga gctacagcag atgtgaaatc aaagttattg atcttggag cagctgcttc 300
 ttgtcagata acttaaaactt atatgtccaa tcacgttctt accgatctcc tgaggtcatc 360

ttgggtttac catatgatca gaaaattgac atttgggtctc ttggctgcat cttatctgaa 420
ctgtacactg gtgaagtac 439

<210> 30674
<211> 447
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 30674

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agagcatgtg aaccttatca aggaataaccg tgcgaagatc gaggctgaac tgagcaatat 180
ctgtgatggc atcctgaagc tgcttgactc ccacctagtg ccttcttcta ctgctgctga 240
atcaaaggtc ttctacctca agatgaaggg tgactatcac aggtatcttg cggaatttaa 300
gactggctct gagaggaagg aatctgctga gagcacgatg atggcctaca aggctgctca 360
ggacattgcg ctggctgagc tggcacctac ccattccgata aggcttgngc ttgctcttaa 420
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<210> 30675
<211> 305
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-G7

<400> 30675

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cttatatgtc atcctgaatt tgctttactc ccacctagtg ccttcttcta ctgctgctga 240
atcaatggtc ttttacctta tgacgatggg ttactatcaa aggtatcttg cggaatttaa 300
gactg 305

<210> 30676
<211> 269
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-G9

<400> 30676

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agggtgtcga gtggtggtgg tggtagctgc ttgcacgcgc cactgtttgt cgcgccgcatc 180
atgtactacc ctgctgcgtt ttctggttat caatgagatg atttatttga ttcttttcag 240
cctgggcact aataagcgca cccagtttt 269

<210> 30677
<211> 434
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-047-Q1-K1-H1

<400> 30677

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gcgcgttccg gagagctacg ggccacgtgc tgtggcggac ggccaggatg gaggcccg 360
accacatggt gctggagctc gacgtctacg ccaccgtgcc ggccgctagt tcggcttcgn 420
ctccgcgcgc cgga 434

<210> 30678
<211> 451
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-047-Q1-K1-H10

<400> 30678

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gctttacgta ctagctntga atcattgctt gttccagcgt ttgagcaagc atgcaagaca 420
atgtttgagc aaatagatgg tgcatttcaa a 451

<210> 30679

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-H12

<400> 30679

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ccagaacaag gcgcatgtgc gtcggcgtcg tcttctgcca ccgtatctat cgaccttatg 180
tacatcttca tctatatata gtatgagttt tgatgtcatc tatttcttgg atgtctcaca 240
aggttattta tttgtaaaaa aaaaaaataa aaaaaaataa ataaaaaaaa aaaaaaagat 300
acaataaaaa aaccccataa aaaaaaaaaa aaatacatat ataaaacaaa catctaatat 360
aaactatact tactttcatt atacttacat ac 392

<210> 30680

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-F8

<400> 30680

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tcatggactg gtctagacgt ttgtaggttg ccttgggtgc tgccagacgt ctagctatct 180
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agatatctaa tgcacctgtg tctgcagcaa acctttcggg ggagaccttg tagaagggtt 360
tactcactcc caagagcaac gtatgtagct ttggagtcgt gttactggag ctaatcactt 420
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<210> 30681
<211> 273
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-047-Q1-K1-E4
<400> 30681

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actcgataca ttcacacaac catcctagta tataaatctg aactgatata aaactaaatt 180
aaaatataca aacctatctc tttaaaaaat caaaacaaac atacacatgc attctacaat 240
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<210> 30682
<211> 321
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-047-Q1-K1-E5
<400> 30682

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ctgtatgagg tggcggggac aattgtatgc taggtgggct tcatggacat taactataaa 120
taaataaata aatgtttgat gtatgaagat cagctctagt atgctatgta tgactccata 180
ttcgtcgtat tatgacatgg tgtgctcatg aagtcaagtg tgactagtgt atatattgtg 240

gaacgataac aattgcataa ttaaagggct gtgcagtggc attagaaaat actagcttaa 300
cgatgttgct aatatgatca g 321

<210> 30683
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-E6

<400> 30683

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tgttccccac ttctttcccc tcccgttcaa tctcactggc ctttgattgt attatatgtg 120
agcatccatc attctgtgaa aaaaaaaca aaaaaaaaa ataaaaaaaa aaaaaaaaaa 180
gaaagcccta taaatgatcc aagacaaagt catgcaagaa tgcgacgaca aacacattct 240
ctgggtgaaac tgatttataa cttagctctc gtactggagc tatgacttga ctgctaaatc 300
cctgggggtca tccaacgtat tcgatatacg gcaaatacct cttgtaccag ctcacgtga 360
ccctaactga ct 372

<210> 30684
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-E7

<400> 30684

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ggccttagta tgatagacaa gtaatataaa tagtagagtt attgtaaggg aatattagag 120
tgattaaatg tctatgactg ataaaataag aataaggttt ataaactatg gcaagagatg 180
aaggttgtga aaatatatgt gcttcaagaa gttagctatg atcatagtat tataatgact 240
gatgaaactc attcaaagca tgattatgat actcaagata tgata 285

<210> 30685
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-E8

<400> 30685

cccacgcgtc cggtcgcggc ggcggtcctg gcagcggcgc tgctgctgct ggcggcgggg 60
gccggtacgg cgtcggcggc ggtgagctgc ggcgaggtga cgtcgtcggg ggcgccgtgc 120
ctcgggtacg cgatgggcag cgcggcgctc cctctccgcg gcgtgctgca gcgggggtgcg 180
ctcgtcaac agccgcgcgt cgtcggcggc ggaccggcag gccacctgca actgcctcaa 240
gagcatgacg ggccggctcg gcggcggcgt cagcatggcc aacgccgcca acatccccgg 300
caagtgcggc gtctccgctc gcgtgcccac cagccccacc gtcgactgca ccaagatcaa 360
ctgatcgatg gaaccatagt ggaggtagct cgctcgttgg atggcagcgt acgtggccat 420
cagcagcatg cagtcgtc 438

<210> 30686

<211> 453

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-047-Q1-K1-E9

<400> 30686

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tccaggctca ccatggtctc caccgaggag atcctcctcg agcgcccccg cgccccaggg 120
agcaaagctg aggagtcagc tgcattctgg gatccgctgg ctatggcgag caagggaggt 180
gctgtttca tggtttgag aacctgtggg aagaaggcg atcactggac ctcaaagtgt 240
ccgtacaagg acctggcacc accgactgaa actttcacgg acaggcctnc aacgtcagat 300
ggcctcctg caccagggtg tctgctaag ggagcatatg ttctncaac catgagagga 360
agtgtgata ggactggaga ctgatgcgc cgcaggaacg acgagaattc cgtccgtgtg 420
accaacctct cggaggacac ccgcgagcct gac 453

<210> 30687

<211> 387

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-047-Q1-K1-F1

<400> 30687

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tggccgtccc gtggcggcgc cggagagtcc catggagtgt gacctcgcgt ggcgcttccg 120
acacgctgcc aacgccatat gcaccggccg gaccacatac tacaaggact accgacgggt 180
cacgcttacc cgcgacgtca acacctgcag cctcgtcgtc gacaccgtgg gtgaatacca 240
ctcgggtgtg ggtgccaagc gcaatggacg gcacaagggg aagaaagga agaagggaaa 300
gcaggatgca cctgtgactg acttcgtgcc ggttaagaca cagattaggc tggacgagaa 360
cactgncaac aatgaggctg ctggggc 387

<210> 30688

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-F10

<400> 30688

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ggccagtgcc agaacgacat gaagggcctc gtgttcgaca accagtaccg ggaccaacct 120
aagatccccg gggacttcat cctcaagtac atcttccaga tcaacgtgga ccgttccaag 180
tggatcgacc tgtcgggtcat tttcagcatg atcttcatct accgcatact cttcttcctc 240
atgatcaaga tcaacgagga cgcgctgccg tggatccgcg gccacatcgc gaggaagagg 300
atgcagaaga agggccctac cccaccatg ggcaagacgc cttcgtgag aggtacgtc 360
gtcgatccgg agctcggttc caacgagggc tagaagtcgt gcttgttctt ttgggtagcg 420
gaaaaaaaaat aaggtgtttc tcccccccg 449

<210> 30689

<211> 133

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-047-Q1-K1-F11

<400> 30689

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 tcntgggcca ttccgtcgct gttgacgcac gtatttttct tgtgctatgg aaccttgctt 120
 ttggtacggc act 133

<210> 30690
 <211> 370
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-F12

<400> 30690

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 caatgtctc gggtagggg tcttacggc ttgtggagg ggcgatggcg gcggctgatg 120
 tggagtaccg ttgcttcgtc ggcgggcttg cctggggcac cagcaacgag tcgctggaga 180
 atgccttcgc ctctacggc gagatcctcg actccaaggc catcaccgac cgggagacgg 240
 ggaggctcgc cggcttcggc ttcgttacct tctctccga gaactccatg ctcgacgcta 300
 tcgagaacat gaacggcaag gagctcgacg gccgtaacat caccgttaac caagcccagt 360
 cccgtggcgg 370

<210> 30691
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-F2

<400> 30691

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 tggccgtccc gtggcggcgc cggggagtc catggagtgt gacctcgctt ggcgcttccg 120
 ccccgctgcc gacgccatcg gcaccggccg gaccacatac tacaaggact accgccggtt 180
 cacgcttacc cgcgacgtca acacctgcag cctcgctcgc gacaccgtgg gtgaatacca 240
 ctcgggtgtg ggtgccaaagc gcaatggacg gcgcaagggg aagaaaggga agaagggaaa 300
 gcaggatgca cctgtgactg acttcgtgcc ggttaagaca cagattaagc tggacgagaa 360
 cactgccaac aatgaggctg ctggggctgc aacggagccg gtgtttggtg ttggtgaggc 420

tgtcaatgac a

431

<210> 30692
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-F3

<400> 30692

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tatggctaga atctcctgac gatcaagaaa ctcatcacac tggcgaggca tccatggtgg 180
gaccagact tttagctcaa ggaatatacg actagggcca gaaatcagtg tcggtctacc 240
ttcctgggaa ggagtcattg catgactcga gaaatggatc tgcatacaag ggaagcgcga 300
cacacatgct acaggatcta gaagatagcc attccagctt ccatagaggc tgtacaa 357

<210> 30693
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-F4

<400> 30693

cccacgcgtg cgcacacgcg tgcgcagttt cctgtttttt actatcaggt acatctgtgt 60
attgtgactg atgtactacc ggcaaattct tatgagtttc agaaatataa ccagcagtct 120
gggtgactagg tgtactattc actgctcaga atacacgcta tagctcgaca atgcttggag 180
gactcgggtg acttgcatca tttaaacata gttcactgtg atctgaaacc atagaatatc 240
cttctgaaga gctacagccg atgtgaaatc aaagttattg atcttggag cagctgcttc 300
ttgtcagata acttaaactt atatgtccaa tcacgtgctt accgatctcc tgaggctcatc 360
tcgggtttac catatgatca gaaaattgac atttggcttc ttggctgcat cttatctgaa 420
ctgtacactg gt 432

<210> 30694
<211> 390

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-047-Q1-K1-F5

 <400> 30694

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 gttgacactg agttactacg ggcaaatctt tatgagtttc agaaatataa ccaggagtct 120
 ggtgacgagg tgtacttttc actgccc aaa atacaggcta tagctcgaca atgcttgaag 180
 gctgtggtgt acttgcatca tttaaacata gttcactgtg atctgaaacc agagaatattc 240
 cttctgaaga gctacagcag atgtgaaatc atagttatag atcttggaag cagctgcttc 300
 ttgtcagata acttaaactt atatgtccaa tcacgttctt accgatctac tgaagtcattc 360
 ttgcgtttac catatgatca aaaaattgac 390

<210> 30695
 <211> 448
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-047-Q1-K1-F6

 <400> 30695

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 gggcctggaa tgatccagca aatgcagcat ccttgcaacg agtgcaaggg ttctggagag 120
 acaatcagcg acaaggatag atgccacag tgcaagggtg ataaagttgt gcaggagaag 180
 aaggttcttg aagtgtttgt ggagaaaggc atgcagaatg ggcagaagat cacattccct 240
 ggtgaagctg atgaagcgcc tgacactgtc actggagata tcatttttgt tctccagcag 300
 aaggagcatc ccaagttcaa gagaaagggc gatgacctt tctacgagca caccctgacc 360
 ttgactgaat ctctgtgtgg cttccagttt gttgtgactc acttggataa caggcagctg 420
 ctgatcaaat caaatccggg cgaagttg 448

<210> 30696
 <211> 441
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-047-Q1-K1-F7

<400> 30696
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 tgtgatctgt tatggtcgga ccctgataaa gagattgttg ggtgggggtga gaatgacagg 120
 ggtgtttcct acaccttttg agctgacata gttgctgagt ttcttcagaa acatgatcta 180
 gatttgatct gcagggctca ccaggctgta gaggatggct atgagttttt cgcaaactcg 240
 cggcttgtaa caatattctc agcaccgaac tactgtggag agtttgacaa tgctggtgca 300
 ctgatgagca tcgacgactc cctagtatgc tcgttccaga tactcaagcc ttctgaaaag 360
 aaaagaaaag caggagctga gaacatgcc aagcccggtta caccttccag gaagataaaa 420
 ataagtgtta cccgcattta g 441

<210> 30697
 <211> 371
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-047-Q1-K1-E3

<400> 30697
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 agaccctcgg cgtctcggcc gacttctccg acatcaacta cccatccctg aataaatgtt 120
 tcatctatca cgaccagctc tagtatgctc tctatgactc catcttcgct gtattatgac 180
 acggtctacc catgccgccc accttcaacta gtgtatatat gntgaacgac aacaactgca 240
 tcaataaaga actctgcact cgcattagaa aacacaggct taacgatctc gtcaatatga 300
 tcagctaccc tgtcaactgc actgtcccga ttgcagcaca tgttctcaag aatgctggta 360
 cttatcatga g 371

<210> 30698
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-D1

<400> 30698

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 cttggggccga agctagcata attggtggaa aatttttttac cgatatctgg gataatggtg 120
 gccgagagat ggccggagaa attattcgaa gaagtggagaa gggcattcac gatgctagag 180
 aagtagctga ggctgctgac aagagcgcag aagccgaagg tcaattaggt actaaataat 240
 agttcttata gtgttgtaat ctttaggctt ttaagatctg tttgcgattt gtaatagcaa 300
 tgtagccggg tcctgcttca gatccgacta aagcgccttc ggaccctcag ccgaaggggg 360
 acgacgaaat taaaaagatg gccgaagata tcatggacca agttgttgat cgaactgt 418

<210> 30699
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-D10

<400> 30699

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 atccaaaagc ttccccaagc acgaggtgaa gcatgtctct gaccataaga acgctgcccc 180
 gtgtgcgaaa tttagtcttg atggaaagta ttttgcaact gggagtgtctg atacatccat 240
 taagtttttt gaggttgcta agattaagca gactatggta ggagactcta aagatggccc 300
 tgccaggcct gtgatacgga cattttatga tcacacacag gccatcaatg atctggattt 360
 tcatcctgag agtccaatac tgatatcagc tgccaaagac aggacaataa gattctttga 420
 cttttcaaaa accaatg 437

<210> 30700
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-D11

<400> 30700

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 tgagtaccgc tgcttcgtcg gcagcctcgc ctggggccacg gacgaccact ccctccacaa 120

cgccttcagc acctacggcg aggtcctcga gtccaagatt atcctcgatc gggagacgca 180
 gaggtcccg cggcttcggct tcgtcacctt ctccacggag gaggcgatgc tgaacgccat 240
 cgagggcatg aacggcaagg agctggacgg ccgctacatc accgtcaacg agggccagtc 300
 ccgcggcggc cgtggaggcg gctgcagcag ctaccgtggt ggccgaggag gctgcggcta 360
 cagcgggtggc gggcgccgtg atggctgcgg cggctacagc ggtggctg 408

<210> 30701
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-D12

<400> 30701

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 tactcggaca accagcctgg tgtgttgatc caggtgtacg agggcgagag gacccggacc 180
 cgcgacaaca acctgcttgg gaaattcgag ctctccggca tcccaccggc tcccctggtg 240
 gtccccaga tcacgggtctg ctctgacatc gacgccaacg gcatactgaa cgtgtctgcc 300
 gaggacaaga cgacggggca aaagaacaag atcacaatca ccaacgacaa gggccgtc 358

<210> 30702
 <211> 351
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-D2

<400> 30702

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 cgggtggagaa gcgtgagggc ggacgccggc gggggctggc tatccgggct gctgggcggc 180
 aagggcgggc gcgcgtccac ggcgatgatg gtgacgccgg gaaccgtgaa ggccggcgac 240
 cccgtcctgc acgagcccgc gcaggagggt gcgccggtgg acgtgctgtc cgagaagggtg 300
 caaggcgtca tcgaccggat ggtcgacgtc atgcgcaagg ccccgaggct c 351

<210> 30703
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-D3

<400> 30703

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ggacgcagcg ccttcctcct ccattgggcat cagcatcgcc attggcagca tgatggaggt 120
cgacgccgac gaccgccaac ccagtccgcc tcccgacgcc gacttcttca acgccttccc 180
cgacgacttc gacgaccaag acctcgactg attgccgccg ccgcttcttt gctcgcccgg 240
acccttccg ccagttggga gtcgtatacg aacctaccta cttccaagga agcaccagtc 300
atccatcacc ttgtacatgt ttttatgttg cagcactagt ggtgtttaat tgtcagctgc 360
gatcatgtga gaacctgacc tgggtacatta tgtatataag aagaaataga accctgtaac 420
ttaatat 427

<210> 30704
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-D4

<400> 30704

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atatggaaag agatgaagtg gttcttgaag aagaggagga agaagaaggt gaggtatatg 120
ttgaaggcga tgacatggaa gagatggatg acatggaaga ctttgaaggc ctcatgatg 180
gaggcacgga tgacgatgat gttttggatg atcccgtatc aaggaaatcc aagggatcct 240
cttcttattc gaagcaaaat gtcgggaaaa ggtctaggaa ggttatgact gacgtggaag 300
aagacgagga gataaatacg aggcaaaggc aaagggcgtg agtgcgagat gtgcaactgc 360
aacgacggtt atatgatgtc agatgccggc aggcattcac ttctgatgta tgttggatca 420
ttttataactt gccttcgtac tgtaacgcgg agtgc 455

<210> 30705

<211> 424
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-047-Q1-K1-D5

 <400> 30705

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 gcgtgactca ttcattggag actcacgcac tgtcatgata tcatgcattt ctccctagttc 120
 tggctcttgt gagcatactc tgaacacatt gagatatgca gacagagtga agagtttgtc 180
 aaaggggaagc aatgccaaaga aagatgtgtc tttggcagtg cctttaagag agtcgagccc 240
 ttcctcactg ccttcagatg taccctcatt ctctgcatct gaagtgatga atgatatcac 300
 cgagagaaac aatttttggtt ggcccaagca gcagtatgtt aaagaacggc ctgctacgac 360
 atttgttgaa cgaatgccca aagtgaaaga tgccgtggag ttcggaacat cagacagtgc 420
 ttat 424

<210> 30706
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-047-Q1-K1-D7

 <400> 30706

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 gatactactc aggaagaccc catggagggtc gctgatgccca aagcagattt gaactatatt 120
 ggtcttgatg gagagattgg ttgcatgggtg aatggagcag gattggccat ggcgaccatg 180
 gatattataa agttgcatgg tggtagcgtc gccaatgtc ttgatatcag aggaagtgc 240
 tcagagggtc atgttggtgca aactctcaag atactgactt cagatgatag agtgaatgca 300
 attctagtga acatttttgg aggcattatg aaatgttatg tgatagcaag tggaattgat 360
 aatgcagcnc aacatgttga cctgaaagtt cctgaggtag ttcggttgga aggcacctat 420
 ttataccaag gaaag 435

<210> 30707
 <211> 155

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-047-Q1-K1-D8
 <400> 30707
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 gggatactaa taaaaaaagt cacaaacaaa aacattcaat atcactacct attttatcta 120
 tctaggtatt tttatttata tttcctacat tttaac 155

<210> 30708
 <211> 446
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-047-Q1-K1-D9
 <400> 30708
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 ggctgcgcgt atcaatgggtg tgaagagggtt cttctatgcc tcgagtgcac gcatttaccc 120
 tgagttcaag cagcttgaca caaatgtgag cttgaaggaa tctgatgcct ggctgctga 180
 gcctcaagat gcctatggct tggagaagct tgcaaccgag gagctgtgca agcactacac 240
 caaggacttt ggcatcgagt gccgcgtcgg ccgcttcac aacatctacg gccctttcgg 300
 aacatggaaa ggtggccgcg agaaggcacc ggctgccttc tgcagaaagg ctcagacatc 360
 cacggagagg tttgagatgt ggggcgatgg tctccagacc aggtccttca cttcatcga 420
 cgagtgcgtg gaggggtgttc tgagat 446

<210> 30709
 <211> 443
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-047-Q1-K1-E1
 <400> 30709
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 tccggtacgc ctaattctga ggatgatgat aagcggaaaa aagtgtccc ccaagacgcc 120
 aatggcaaag agtcagagcc gcccataaat ggggcgcaac ctgaagtacc atccattgcg 180

ttcttaaaga aaagaattaa aacagttcta aggtcctgtc gagataggaa ccctaaggag 240
 agcacattac gctctactta cgaggatctt caccttgaaa cggcgagcgc cgaaaagcgg 300
 gtaaaaatcg cccaggccct agaaaatctg tacaggcgaa gccaatattt ccggagtaac 360
 acaaggcagc agccccatac cgacttgatt attcagatct gcgattggga gcgtacgaag 420
 agggtaaaga attcactggg gta 443

<210> 30710
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-E10

<400> 30710

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 aatggggttt gttgcatgct tacacaggct acttacatca agaagtatgg catcacatat 180
 gatggcgttt cctgtcgctg ttgggagaat aatggggttg cttaggaatg gttcggaagg 240
 agtagctgct gaagctgctg gacttggtggc tatgctaatt ggtggtgggc cttgtgatcc 300
 atctatctta atggatacaa ggggagaatc ccatgccacc tacatgcatg caaagtctgt 360
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 gtcaccattt gtatctct 438

<210> 30711
 <211> 378
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-E12

<400> 30711

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 agccggcgga ggaggagccc gctgccgaga aggcgccggc cgggaagaag cccaaggcgg 180
 agaagcgtgt cccagcaggc aagtcgcccg gcaaggaggg cggcgaggga aagaggggcc 240

ggaagaaggg caagaagagc gtggagacct acaagatcta catcttcaag gtgctgaagc 300
 aggtgcaccc ggacatcggc atctcctcta aggccatgtc catcatgaac tccttcatca 360
 acgacatctt cgagaagc 378

<210> 30712
 <211> 315
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-E2

<400> 30712

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 gtgtactagt caattgttat ggtacagcga aaaagagaga agaggatgat ggcattcgca 180
 gcgaggtgtt gagattccgt tgtagccatg catttgcagc cgattgtttg gtactgggtca 240
 aagttctgta gtagtcataa tactctgctc aaaatataga aagaagaatg gcttcgtcaa 300
 tatcagatgt tgaga 315

<210> 30713
 <211> 456
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-047-Q1-K1-C9

<400> 30713

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 acgaggccgc cttcgacgcc gtcgtgtgct tcgagaccat gaaccgcac ctgttcggcg 180
 acgacggtgg cgaccggcgc ccggccgtgg tgctcaaacc ggcggtggac gcaatcgctc 240
 ccgggctgcy cgccgctggc tccaaccac gccggacgct gttcctggac gacagcgaga 300
 ggaacatcgc cgcggggaaa gcgctcggcc tncgcaccgt cctggttggc aagagcgcg 360
 ggagcaagga agcggactac gcggtggaga gcatcggcgc gctccggcgg gccatcccgg 420

agatctgggg cgaggccgct tgacgtcct tcgaca

456

<210> 30714
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-B5

<400> 30714

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atattatctg aggaccatga ctccaagtgc ttttgagtca gcacttcgtc aaaaggatgg 120
agagcttgct tcttacatgt ctgcttggtc ctcattggaa tctattcgga attcactggc 180
agaggagtgt gtgaaactga cagaacaatg tgaaaagtta cggactgaag ccgctgctgt 240
gcctggctta agggctgaat tggaagctct gaaacaaagg cacttccaag ctctagaact 300
aatgggggaa cgtgatgaag agttggagga gctaagaaat gatattgttg acctaaaaga 360
gatgtacagg gagcaagtgg atcttcttgt tagccagctc caggcattgg gtgctcgtgt 420
at 422

<210> 30715
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-B6

<400> 30715

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gctcagcagg ctggtgttcc cgccggagct cacgtacctg gacctgtccc acaacctcat 120
ccgcggcacc gtgccgctgt cgctggagcg cctgtccacg ctgcagaagc tggacctcag 180
ctacaaccgc ctgtgcggcc cgctcccca ggggcacggc gtcacaaagc acgggtgcaa 240
gccgtacgcg cacaaccagt gcagcaaagg gaccccgctc gcgggatgcc aggacctgga 300
gtgagtgagt gagccggtgg ccatggtttt ctatactctg ctatgtctc cctcgccggc 360
gttccaatcg tgggtgtgtg tgaaggacga cggtacggtg cctggtttag ttatagac 418

<210> 30716

<211> 415
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-047-Q1-K1-B7

 <400> 30716

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 gcgctcggca gccacacgct gcacgtcggg gacctcaagc acacgctcaa cttgggagtc 120
 tgatggccga gaggggaatg gctaccaagt accaacgtga aggcagttgg aatttggagg 180
 gctggatggg tcggaggcag tcggaagaga aggttgtcag aattggttcg gcaggtgtct 240
 aataaaggct tactgttggg aaagaattgg atccacgggc agcttttttag tcatttgttt 300
 ggaggcattg gattcattgg agggtcgatt tgtgattgta atcacgataa atgtaatgga 360
 ttggaaattc ggaaggggcc agatctcttt ttcatacaaa tcacgtgatt tagtg 415

<210> 30717
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-047-Q1-K1-B8

 <400> 30717

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 tgagcatcct ggtggagacg aggttttgct agctgtaact gggaaagatg ctacagctga 180
 tttcgaagat attggccaca gtgattccgc aaggacatg atggagaagt accacatcgg 240
 gcagatagat gcttcaacaa tcccagcaaa gcgtgctcat gtgcagcccc agcaagcacc 300
 cagccatgca gacaaggata atgacctccc catcaagatc ctacagttcc ttgtgccccat 360
 tatgatcctg ggccttgcac ttggtatacg gcagtacacc aaatcagagt agtaactatt 420
 cttag 425

<210> 30718
 <211> 376
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-B9

<400> 30718

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atttcgctta tgaggctggg cttcaggaga agttccctcc agttcctctt ttgaagtcct 180
acctggaaga ctctaagaag acatcaaccg ctgcttcaga taattcaagc actagcagcg 240
gccaatcagg gagcaatgtg aacaagaaag aacagtctgc actgcgagct gtcacatcaagt 300
gtgttgagga tcgtaaacta gaagctgagt ttccactgga ggggtcttcg gaagcaactt 360
tgaggaacta gagaaa 376

<210> 30719

<211> 447

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-047-Q1-K1-C1

<400> 30719

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atggcgccgc cgcgcgcgc tctactcgtc ctgcgcgctc tctctctctc cctctccctt 120
ggggccgcct ctttccattc cgacgagctc ctctcaacg atgacgaaga gttcgagggc 180
gtcgtcgccc gcccctcgc cccctccccg ccggcgggccc cgggtggtctc ctctccccgc 240
cgcagatcag cggacgcgcc gttgcccggg tcaggcgagt ccaacgcagt gcagttcacg 300
ctcgagcacg accttggcga cggcaagggc ttcgtctcag ctggaacctt ctcgccccgc 360
ctcaagacct tcgcccacgg cagcgagacc ctactaaac ttcgctttac aaggaatgat 420
tttactgang atgataaaac cgcgttc 447

<210> 30720

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-C10

<400> 30720

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 agccgctgct tttcgttcgt cttcactcta cgcgagggcg aaaccacaa accctctccc 120
 tcctgtactc cgcccgacac atccaggggc gatgacgctg ggtagctccg gcgccggatc 180
 gagcgtcgtc gttcctcgaa acttcaggct attagaggag ctcgagcgtg gagagaaggg 240
 cattggtgat gggacagtga gctatggaat ggatgatgct gatgacatct acatgcggtc 300
 atggactggt accatcattg gccctcaciaa tttgctttgt gacaaagact atccggagaa 360
 gccaccatct gtcagattcc actcaagaat caacatgaca tgcgttaatc acgagacaag 420
 aatggttgat ccaaggaagt ttggtttgc 449

<210> 30721
 <211> 394
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-047-Q1-K1-C11
 <400> 30721

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 tagacgatcc tcctccgcca tgatgcggga cggcgtgcct ccgtcgggtg ccggctccgg 120
 cggcgcggcg ggccggcgacg ggcccaggcg atgctcgcag tgcgggcacc acgggcacia 180
 cgcggaacc tgcacggcgc ggcccgtcaa gctcttcggc gtgcgcatcg gggacaagcc 240
 catccggaag agcgcagca tggggaacat cgcgcacctc gccgcggagg gcagcggcgg 300
 cagggaagaa gggtagcggt ccgacgggga gcgcccgcac aagaagcgaa gtgaggcatg 360
 gactgaagag gagcacaaga aagttctgct tggg 394

<210> 30722
 <211> 378
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-047-Q1-K1-C2
 <400> 30722

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 gccaggcgtc ctcccacgcg tgcgcccacg cgtccgcaac acatggttga tcaactgaca 120

gaacttcata aaaaagaaca aatgctttgt gaagcaaata agtgtcttcg aagaagactg 180
gaggagagca accagggttat atggcagcat gcgtgggagc aaagcgagcg gcattctgaa 240
gtgcagccgc agcagctcaa tggcaataac ttcttccatc ctctcgattg tgctggtgaa 300
cccacccttc agatagggta tcttcatag gcactgacta gctcatgcat gaccaccttg 360
ctgccctcgt gggttgcca 378

<210> 30723
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-C3

<400> 30723

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ttgctgaggt gttctcgcgc atcgatcaca agttcgacct tatgtacgcc aagcgggcgt 120
tcgttcactg gtacgtcggg gagggtatgg aagagggtga gttctccgag gcccgtaggg 180
acttggtcgc tcttgagaag gactatgagg aagtcggcgc agagggtgca gatgacgagg 240
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ttgagttatt ttgagtatac tctgtatggg tccactccat tgcgtgctgc tgctgtgtgt 360
ttccattttg tattttgtga taaattgttc gtagccccct attggccatg attgttggtc 420
ata 423

<210> 30724
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-C4

<400> 30724

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tttcatgggc agccagcaga aatcaagcat ggtagtggtg ttatagcagc aataactagc 120
tgcacaaaca cctcaaatcc tagtgttatg cttggtgctg gtctttagtc taagaaagct 180
tgcgagttgg gtcttgaggt taaaccatgg gtgaagacaa gccttgcccc tggatcagga 240

gttgtcacia agtacttgct tcagagtggc cttcaagaat acctcaacca gcaaggattc 300
catatcgatg gctatggctg taccacttgc attggaaact ctggatgatct cgatgaatcc 360
gtatcaactg ccattacaga aaatgatgtt gttgctgctg ctgatatgtc gggtaaccgt 420
aacttcgagg gtcgtgtgca ccccttaac 449

<210> 30725
<211> 202
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-C5

<400> 30725

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ctgagtggct cctatcggtg tatgtttctg tcggttctta tctatctgtc gctgtgtggg 120
ttacaactta cgtcgtaaga ctttattccc ccgctttgct actgggttat taagtttgtc 180
gttattgttt tcttgatctc aa 202

<210> 30726
<211> 253
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-C6

<400> 30726

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agaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa ataaaatata aaaaaaaaaa acaaaaacaa 180
aaacataaat aaaatattta taaaatatta aataattaca aaaatattat aaatataaaa 240
aaaaattaca tat 253

<210> 30727
<211> 243
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-C7

aagaaccaga gtctgaacca caactaaaaa agcttttgcc atatatacatt tcttctttca 360
 gtcctgataa atcagtggct gaatctgtgg aagagctaaa gaaatgtagc cgaagtgggtg 420
 atgctgcaat ggcagaat 438

<210> 30732
 <211> 412
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-047-Q1-K1-A11

<400> 30732

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 atctgctgtc gtgacctcat ccagccgtgc tgtggcagtg gatcgagatt cgctccagct 180
 ctgattatcc ccacgtccag agttacaaga agatcaagct tgggtgtggc tgctgctgtg 240
 ttgcctcctc ttgttgacc gaagagaggg aggagagaag cagctggcgt gcagacttct 300
 actcaggtgg tcttttattc tctatggtgc ttctaggata catctctctc agaagcacca 360
 taagtctngt cttgggcatt acaccaaggc tagccactct gctacttggc ac 412

<210> 30733
 <211> 442
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-047-Q1-K1-A2

<400> 30733

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 catctacgcc gcgtccgcct gctcggcggc gcagtgcggg gcttcttctt cggctgcggg 120
 cacgcgcaga gcgggctgtt caacggcgtc gacgggctcc tgggcctcgg ccgcgagcag 180
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 acgaagccgt ccaccgcggg gtacctgacg ctgggcctgg gcgggcccgtc gggcgccg 300
 ccgggcttct ccacgacgca gctgctgccg tcgccgaacg cgccgaccta ctacgtcgtg 360

atgctgacgg ggatcagcgt cngcgggcag cagctgagcg tgcccgcgtc ggtgttcgcc 420
ggcgggaccg ggggtggacac cg 442

<210> 30734
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-A3

<400> 30734

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gcgggagcca tggccgtgat ggagaagctc aagatctttg tcgttaagga gcccgtagtc 120
gcggcctcct gcctcatcgc tggattcggg ctctttcttc cagcagttgt ccggccaatc 180
ctggattcat ggcagaccgc ggaacaagtt cctccacctc ttctaaatga tgtggttgca 240
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acattttctt ccccggtgtt tttctggcga ccagattgga aggcttttcc caagagtcac 360
ggtcttgaac tctagatggg atccgcggaa taatcattgt accttgatca tatactgcaa 420
tgtggc 442

<210> 30735
<211> 175
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-A4

<400> 30735

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ggaaggggga cataaaaaat ataggatacc agctaacgta cgtcgtcttg caaactctta 120
aactctttta tatggccacc taattacaac tcaactggccg ctaaaataca acgta 175

<210> 30736
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-A5

<400> 30736

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gttcaggaag tctgagccta ttcttgaggt caacaatgag cctgttaagg tggttgtcgc 120

tgacaacgtc cacgacttcg tcttcaaate tggcaaaaat gtccttattg aattctatgc 180

cccctggtgc ggacactgca agaagctggc gcccatcttg gacgaggcag ccaccactct 240

ccagagcgac gaggaagtcg tgattgctaa gatggacgct actgccaatg acgttcccag 300

tgagtttgac gtccaaggct acccgacctt gtacttcgtg accccgagcg ggaaggtgac 360

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ga 422

<210> 30737

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-A6

<400> 30737

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gcgtgccctc caggcgagca ccctcaaggc ctgggctggc aagggtggaga acctggagaa 120

ggctagagct gccttctcgc ccaggtgcaa ggccaactct gaggtaccc tcggcaccta 180

caagggtgat gctgccgccg acaccgagag cctccacgtc aaggactaca agtactgagt 240

tgcttctctt tgctgccccg ttttggaact cctgcctacg agctagggtg cggagtgtgg 300

tttgctcgtt agagcttatt ttccgacatc caaaaaacat gcttcctatg tgggatgatg 360

gttatcttta tatttgatg ttaattagtc tctttgctgg taaatttcgt gtaagttggt 420

cctgccgatg gagaatcgag cagc 444

<210> 30738

<211> 154

<212> DNA

<213> Zea mays

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<400> 30738

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 ctttccagat ttggtatgc ttgtagttaa atctacactg tagataaaga aatgtttgtg 120
 gagaagtaaa aatcccttat ttggtcgtca tgggt 154

<210> 30739
 <211> 356
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-A9

<400> 30739

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 ccaatacctg ctgcactgca tgtttatcaa aagttatcgc tcctgctcgc ggaaagtgag 180
 cttgactgtt gccggggtgg aagtatcgtt ttggactgat gcatgagtgc tgcggagggg 240
 tttgttgttt ggttgtttgt tcggtgaccg aatcgcgagc tggacgcctg tttaatccgt 300
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<210> 30740
 <211> 396
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-B1

<400> 30740

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 cgccgaaacc ctagccccga tccggctcag gagcactact tcttggcatg gcgggcaccc 120
 ctagccaggc aagcctcctg ctccagaagc agctcaagga tcttgccaag aaccccgtgg 180
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 tcggcccgcc cgacacccta tatgatggag gctacttcaa tgcaataatg accttcccc 300
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 tttatccgga tgggcgtgtt tgcatttcta ttcttc 396

<210> 30741

<211> 219
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-B10

<400> 30741

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gtttgcctgg tcatgaagta ttattacttt cggtgaaacc gtgatgctat taagacttaa 180
ttttttttat ggaacatcga atgtaaggca tacatggtt 219

<210> 30742
<211> 211
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-B11

<400> 30742

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gaaaaaaaaa aaaaaaaaaa aactaaaggt gaaaccattt atactatcaa aacttaatta 120
cgcatacaga acacataaaa gtaaagcaaa catggtacaa aaaaaaaatt aacagaccgc 180
aattgtccaa cgatctaaat gataaaacct t 211

<210> 30743
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-B12

<400> 30743

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aaaaaaaaaa agaaaaagtt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaataa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaataatac aacttaaaac aaaccctttt 180
aaactcccct tactaaaaat ttataacca aaatataaaa cattcctaata ttaaaaaacc 240
ttcctaataa taaaaaatat cccaattata aaaatcccca atatcccaac tctcaaacac 300

cctaataaaa

310

<210> 30744
<211> 259
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-B2

<400> 30744

caagttgcgt ggcaagaaat agctttccta cgagtttgtg tcccggagca tcataatagg 60
gggaggacaa ggcaagctgt ctgcttattt gtctatgttt ggtatctcaa gtcctgcgga 120
ctgtttctgt tggcacaaga gggaataaat gtgttcacgg acctgttatg ctttcttctt 180
gtcatattac cttgctctaa acatttttga tgaagctgtc aaggtaatat attttctcta 240
aatatttagc ctaacaaaa 259

<210> 30745
<211> 286
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-H9

<400> 30745

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atgctataat acctaacgaa agtagccatg agcggagaga ggtaaaggcg atcggctcaa 120
gcgcccgtca agaaggccac gtacaggaac tccaaagctg gcctccagtt ccctgtggga 180
aggatcgta ggtttctcaa agccggcaag tatgccgaga gaagcggcgc ccgcgcccct 240
ggttacctcg atgccgtgct cgagtatctt gccgctgagg ttcttg 286

<210> 30746
<211> 419
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-047-Q1-K1-B3

<400> 30746

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accgaaggTC ggaagaaaga cggagtgcag attcctgcta gcgacaaagt ttacgagtat 120
atcctcttcc ggggaactga tatcaaggat ttgcaagtta agtcatcacc accacagccg 180
ccaccaccac aagcagcttc cctgcacaat gatcctgccca taatacagtc acattattct 240
caacctgcat caacgtcatc aagtttgctt tcagctgggg gtgcagtttt accagacttt 300
agctcccagg cagttcaata tgggcttcag aggccaacct ttcagagtaa ccttcctctc 360
taccaaccag ggaatactcc gtggggctct tcagtggcac ctncagcagg aaaatgctc 419

<210> 30747

<211> 384

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-046-Q1-K1-G3

<400> 30747

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tgacttgtga ggaggaaggg aggaagaaag cggatccatg gcgtcgaagc ggatcctcaa 120
ggagctcaag gacctgcaga aggatcctcc cacctcttgc agcgcaggcc ctgttgccga 180
agatatgttc tactggcagg cgacgattat ggngccatca gatagcccat acccctgtgg 240
ggtaattttg ggtaactatc aactttcaac cgaactacca attcaaccaa ccaaagggtgg 300
attcaagaac aaaggttaac aacccgattt taaccagcac cggagccttt ggcttgaaat 360
tttgaagaa ccatggaacc cttg 384

<210> 30748

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-G4

<400> 30748

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ataggcgata tgacctagtt gctgacgatt gctggaagat gcacgagctg agaccgcagg 120
caaaatctgt tgatgatgca aaatcctagt tacttacaac tgtgtcacat gagatcacia 180

cacctatgaa tgctctcctc agaatgctgc atatgctttt aggaacagat ctaactatga 240
 cacacaatga ttatgcacaa actgctcaaa tgtgtgccat agcattgatc actctgctga 300
 atgatgtact tgagcgatca acaattgtgg ctggaaagtt atagctt 347

<210> 30749
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-G6

<400> 30749

agcttttctca ccgttgagga agggcaacat attcctccgc ctgcaaccaa tgcctatgag 60
 atctgtttcc tgcgctgcca agaaggatac aacagacaag gtttgtgaga ttgtgaagaa 120
 gcagcttgct cttcctgacc atactgaagt ttgcggtgaa tcgaaattct ctgaactcgg 180
 tgcagattca ctggacacgg ttgagattgt gatgagtctc gaggagcact tcgatattag 240
 cgtggaggag tccagcgcac aaacaatcgc cacagttgaa gacgccgcgg acctcatcga 300
 caagcttggt gctggcaaag cgtagtcttg taccttctct atcgttgctc taccactcta 360
 ggtctatccc ttgatctaag tttctatggt cttaagattt gtgattttct ccgcacttgt 420
 gttgctatcc ccgtgtcgt 439

<210> 30750
 <211> 150
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-G7

<400> 30750

cggctctcgtg gtctgacgcg tgggtaaaaa aaataataag actgcaacca attctggaaa 60
 agagcaaaaa actacgctgg caaaaaagga tacacctgac aaggtttgca gagactgaaa 120
 gaactcaacg agctgtttat ggatattctg 150

<210> 30751
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-G8

<400> 30751

cccacgcgtc cgcccacgcg tccgcgcttg gcttgataac caagggatcg tacaaagctc 60
gccgctgatg gagctaggtg ctcccgcca tagttttcac aagatgggct gccaatccaa 120
gatggtaatg atatgttgag tttggcattc catcaacaaa gaaactgtcg cgagatgcat 180
tggaggctct ggaagtttca caacaacaca caaaaaaagt cttcccaaaa gaagtcccag 240
tcgacctata gctatagtcc tcattcttga cgcttcaggt tcaagaaaag gaactttatg 300
atggaaaaat ggacttcagt ctgctcaacc cttcatgtt actgtgccgg ccgagatgtg 360
cttggtcgct ggtggttgag atttcagatc aggagctctg gagtctggac tctggactgc 420
agcgagccaa atcagtcacc gggt 444

<210> 30752

<211> 419

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-046-Q1-K1-G9

<400> 30752

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gataggcaaa ttttgttggc atctgaagtc atggtttctca ttggtataat catgagcttt 120
cgtttcacac ctcaactactc cattccgcaa tatgtcattt cagctctcat cacatttgta 180
ttttctgagg tgcttgaagg agtgaatctg tccttgctct cagagtgat gtcgtcaagg 240
ctttcccag ggacctacaa tgggtggactc ctttcaacag aggccgggac gttggcccgt 300
gtagtcgcag acgccaccat tactgcagcc gggtatctat gcacggacct ncttctcaat 360
gtcactcttc tgccacctct tgtgatctgc atagtctcca tcgcagcatc actctacac 419

<210> 30753

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-H1

<400> 30753

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 ggtactgtgt acacagagac tgtagaatca cccaagccca aacttggaat gtgggggggcc 120
 atacaattta cactgtatag tctgtttctg tgaaatagct gaaaagttca tgggaagatc 180
 gtgtcaatat ttcatatata tgtatcttgt ttgacacaga acagacggag aaaaatattg 240
 gtttcgcgca tatatgaaat ttcaaaaatt tcgcttttta gaaatttggt acaatgctga 300
 atggctttca agaacttgcg ttccacaaaa accttcatcc tgttttgaaa atgggacccc 360
 acctgttggg ccaaattaaa ccccgcgggg tttgggggta ccccgggggg g 411

<210> 30754
 <211> 415
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-046-Q1-K1-H10

<400> 30754

gaaagcagga gatggagaag ttactgctat agcaggaagt tatgaggacc tcgcttctgg 60
 aatggtgcta tgccagctac agtgagggtt tcagttcctg gatgcacttc tgcgccgtgc 120
 gcatatttgt agagagcatt cttagatacg gtctgccacc atcgttcctg tctgccgttc 180
 ttgctccgtc tacaaagggc gagaagaaaag tgaggagcat cttagaggac ctttgccggca 240
 atgtccatag tattttattgg aaaggcgaag atgacgtggc agttgctggt ctgggaggtg 300
 aatcagaggt ccacccctac gtctcattca ccataaactn tgtttgagca ttactggtgt 360
 tacgccgtca agtaaatcga aacgatggaa tggttctgta cattgctagt gttac 415

<210> 30755
 <211> 309
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-H11

<400> 30755

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 cctttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120

tttttttttt tttttttttt ttttttaaag gaattctaac atcgttcgtg tatacctttc 180
 tttttacccc tcaagggaaa aaactaaagt tttgttcac tcccacaaa tcttttccat 240
 tattcttggg gtgacttgat tttttacca tcccttgaac tttgctgggc cgaaatccga 300
 aacctttgg 309

<210> 30756
 <211> 335
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-H12

<400> 30756

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 gaccatacag cctatgagtt cttctcagaa gagtgatcta atgttagaac ctaagaacaa 120
 tcggctaagg ttgtgtacga ttgtgatatt tgcacgaatg atggttactt agtcgtgtta 180
 taccagggtta tttgtatggt tggtcagggtg gattgcctgg ataaatctct ctgttgtaat 240
 ggtcagagtc cgaattatgt ttgtaatggt cgtgtcccga attattgtac tgggtgtgcat 300
 tattagtga aatgcaacag aagtgtatgt ctaaa 335

<210> 30757
 <211> 361
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-H2

<400> 30757

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 gtactgtgta cacagagact gtcgaatcac ccaagcgca cttggaatgt ggggatccat 120
 acaatttcca ctggatagtt ctgtttctgt gaaatagctg aaaagttcat gggaagttcg 180
 tgtaaatctt ttttatatat atatcttggt ggcggcagaa cagaagcagt caaatatttt 240
 ttttgcgcat atgtgaaatt tcagagatgt cgggtggtgag agataggata caatgctcgt 300
 tgtatttcag gaacttctgt aacacgagaa cattcatcat gtgaaaaaaaa tgtaactcaa 360
 t 361

<210> 30758
 <211> 201
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-046-Q1-K1-H3

<400> 30758

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 tggcccccttg tgaaaggggt cgtgtcgtga ggggctgctc aaagtctcat cgagaaatng 120
 catgccgtct caagcttctg cgtgcccttg cctgaggacc tgctgactca ggccccctgat 180
 tatgtnncaa gctgnngtga a 201

<210> 30759
 <211> 277
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-H4

<400> 30759

cccacgcatg cggccactcg tgcgtctata tcgagagctg gcataaatac ctatctgagt 60
 gttctggaca actgtctact tgttaagcac taaaacggca cgcattggtgc attgatgata 120
 tcagtatcag gcatacgaat cagactccac atatctagtg gcgggttgct cctacttgag 180
 taccgactcg agagcctcgt gcactgggtc ggcctatatg gtactctttg atctgatgtt 240
 ataaacctat gtggctattg ctaggtaatg ctaaaga 277

<210> 30760
 <211> 343
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-H5

<400> 30760

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 cgcacctcgg ctggggccac tggtagacgc tgcgggagct ggaggaggcc accgtcgcgt 120
 tcgtccccga gcacgtcgtc ggcgagggcg ggtactgcat cgtctaccgc ggcgtcctcg 180

30761-30762

ccgacggcta ccaggtcgcc gtgaagaacc tgttcaccac caggggacag gccgaccgga 240
agttcaggggt gaaggtggag gccatcggcc gcttcgggca caggaatctg ttccggttac 300
tggcctacgt gcccaagggc gcccaacggt tcttggggtc caa 343

<210> 30761
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-H6

<400> 30761

gttttgacat gtaacactgt ttcagtagat aatgctgatt gtcagatttg ctgccgctct 60
acagaagatt aagcgaccgt ctgtttcaag aattattcat acagttactt gtgattcttt 120
caagcagcag ttacaaaatg tccaagttgt cttggagggt gccagcacc ctaggacgg 180
tgtccacgac gacaggggtcc ggcggcagca tctgtgagc ctgcgctcg acgctagagc 240
ccaagacgtc gccacgaac ctgtacacct gagcgaggcg caggtcgtcc ggagacaggg 300
ggaactgaac cgtctcgacg tccggcgcca gtgtaccacc atcgtcggcg caccaggccg 360
ggcaaccggc ggcagagcgg tgaggggtgcc gcggcggcac ggcgaggacc agcttcttgt 420
ccgctctgag gaagtgtttc tgggcgtggc 450

<210> 30762
<211> 433
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-046-Q1-K1-G2

<400> 30762

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gacatnctgt gaagtgaagt atattcagca aggagctgaa ggagtagnag aagtnnggaag 120
aagnttctgt atntggacaa ttggtaaaca aatctataga tcatccacat atgcctgctt 180
gaatacacia tagcctgact tagggcatcc cgttctgcta agggaagcca ttctgcaaaa 240
ataattccat gtaatgtagt aatgtacaag tagaacactt ctttcctttg aggtcacaac 300

gaagctaact taatcctctc ccccccttgt gtcaggacaa aaaacgtgca aataggcttt 360
 gtagttgtag ttcgtttttg ctaacatgta tacggttgac cattatTTTT tggagaagta 420
 tacatcaaaa gtt 433

<210> 30763
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-H7

<400> 30763

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 actgccttct gttgccgtta ctctgtggc aaaaaatact cggcaaaaga ggaggcccg 120
 agttgattcc agatcatcaa atgcaattcc ctctggaaac ggcttcacag atcaatttaa 180
 catcattcag ggtgtcagcg acgtatcaat ttcaggcaaa gtaagaaata tccaagataa 240
 tggcttcata gatgaagttc gcaactgggca gccatccgtg ctaacagctg ctactgccaa 300
 cggaccagga catgacaaat gtgcaaatat taccagacat ggttatgggtg gaaaccacca 360
 gggaaggacc actgggacga cttacctttc cagaggatga accaactt 408

<210> 30764
 <211> 377
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-H8

<400> 30764

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 catccctgtc ctcccgtcgc cgggtgcgcg cgcttttcta gggtttccgc tgccccagcc 120
 gccaaacccg ctcacctctc gtcagcggcg atggcgctcg cgtcggtgtc ggccccggtg 180
 gcaggggcag gggccggggg cgggaaggac gaggagctcg ccgatctggt gcggcgcctc 240
 atggacgccc tcgctcgcta cgctgatcgc ctgcccttcg accttgatcg ccagacactt 300
 cgttcactta ctacacttgc tgcgatctcg atcacacttc tgtttgcctt gaaaaatggt 360
 gagagcttcc taagagc 377

<210> 30765
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-E6

<400> 30765

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cggccgagga ggggtgccgtg atcgcgtgcc acaccaagga cgagttcgac gcccgcatgg 120
ccaaggccaa ggagcagggc aagctggtgg tcatcgactt catggccccc tgggtgcagtg 180
gggtgccagat gatggccccg gtgtacgcgg actgcgccag caagtaccct tccgcggtct 240
tcctcgaggt cgacgtcgac gaactgctgg aagtcgcgaa gatctacggc gtccatgtga 300
tgccgacctt ctgcttcac aggaacggcg agacgctcga gagctttgct accgtcgacg 360
aagacgagct ccgggacgcc gtcaggaagt acgcc 395

<210> 30766
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-E7

<400> 30766

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caaatcccga atccctctcg aatttctatt taatgttctt gttcttcccc tccgatccga 120
tgtccccaac tgcgctcccc tggcgatca aacaccggat cgcggcactc gccgccgttg 180
aggaggaggt ttccggcgct gcttccagcg ccttgccgtc agcaccatga ggaagaagct 240
ggacacgcgt ttccccgttc ctcgattaa aaggatcatg caaccagatg aagacgtcgg 300
caagattgct caagctgtac ctgtcctagt gtccaaagca ttggagctat ttctgcagga 360
ttaatgtgat aggacatag at 382

<210> 30767
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-E8

<400> 30767

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cgcccttcta ccgcggcaac agcaccgcac tcgccaccaa cccttctgct gctgctgctg 180
ctgctgctgc gaatggggca cagaaagggg acaggagggc tgccatcgat gccgagatag 240
tgagggttaa cgacctacca gctcatagtt cctacgccat acaccgcatg aagggtgctaa 300
acaaacttcg tcattctgctg tccatcaaga agactacatc tcaagatgag gagctcgaac 360
ttctcttcgc aagcctttca atctaaagtg tctccttgat aagccagtat tttaaccctg 420
ctaaggggagc ccactcttc 439

<210> 30768

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-E9

<400> 30768

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cttcgcgctc ggcgactcca tctgggtcct gtaccgcgcg agccaggact cggtgctgca 120
actggcgccg gcgggcttcg cgcttctgca cctgtcgcgc cctgtggcca ggctcggcga 180
cggcaactca ttattcaacc ttaccgcgcc cggtcgcgcc tactacgcca gcggcgcgcc 240
gggccactgt cgcaagggcc agaagctctg ggtcgatgtg cccttgccca acgggaccta 300
ccttcagccc tacgtcaccg acctcgacgc gctcgcgcac accctcgtcg tcgacccgaa 360
cgacgggttc gcgtcc 376

<210> 30769

<211> 219

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-F1

<400> 30769

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 ggcggtacgc ttatatgact actggacggc gtcttgctga caggaagagt gactagttcc 120
 agatgaacat cacacagagc ggttctgcgc ctgagaccac agtgacaaag agcaatgact 180
 accctgtttg acctgtagca ctgggagaat tcacatttg 219

<210> 30770
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-F10

<400> 30770

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 gcagcagcgg tggaggcggc ggatctggtg gtggtggaag cggtggcggc ggcggtatctg 120
 gctgcgggcc gacgagcggc cgttgccccg tggacgcgct gaatctgggc gtgtgcgcca 180
 acttgctgaa cgggctgac aacgcgaccc tggggacgcc gtccaggacg ccgtgctgca 240
 cgctgatcca ggggctggcg gacctggagg cggcgggtgtg cctctgcacc gtcctcaggg 300
 ccaacgtcct gtgcatcaac ctcaacctgc ccatcaacct cagcctacta gtcaactact 360
 gcggaaggcg cgtacactcg ggcttccagt gcttctgact atcacacgcg catcgatcga 420
 tcgatctgg 429

<210> 30771
 <211> 173
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-F11

<400> 30771

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 aggaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaataacaa catatataaa atatctaaat ata 173

<210> 30772
 <211> 198
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-F12

<400> 30772

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aggaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

taaaataatg ttaccaagca tttaaatttt atttaattgt aaaaacccta tactaaatca 180

acttactaat tcatttaa 198

<210> 30773

<211> 414

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-046-Q1-K1-F2

<400> 30773

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ctcatgcacg gcaatgttga tgcacacag gtttcagcta tctatgcca gaagtctgta 120

ccaagtatat cagtgattgg actgaatgga gttctgctgc cgaatcatga tggatatatc 180

aactctgaaa atctgaatga aagcattgag aaagcgtggg ctgctcttca tctacaggag 240

acagcagcga ccttggtgac agcatcactt gctacaagaa atgctgaacc tgtgaattct 300

gctactactg ttttgtcagc tcaaggcggc tcttctactg tagacaatcc ttctgattat 360

ccagtcaatc accagatggt tctggtgcca gtgaagtngc tcattcaact gatc 414

<210> 30774

<211> 228

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-F3

<400> 30774

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gtggcggctg tacccttttg aggcttgcac caaaagttga tgcaattata gagacccttg 120

agagcgatga acataagggt gctgctgaaa ttgtaaggaa gtgcttgagc tatccactta 180

aattgattgc aaataatgca tgcgttaatg gcagtggtgt tactgaga 228

<210> 30775
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-F4

<400> 30775

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aatctggaag cagctaataga gccttcgcct cgtcatgaat catttgctgg aggctaaaga 120
atagccgatg cttgcaagtc agcgctcaaa tcccattctc tttgttttaa ctccagaagt 180
tctacaccgc catcaattat ctgtaaagtg cgtgttaaata ttcttgata ctacattaga 240
tgtaccctca ggttgagatc aacaataggt ctgcggaata tgacgagcaa actgtgccac 300
tgtctttacc cgtaaattctc atggatcatg acaagttttt ttatgtacc caatatgatt 360
aaacttactt gacaaaacta aaaatccgta tcatttaaca aaaagg 406

<210> 30776
<211> 202
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-F5

<400> 30776

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gaggatcaat actgagactc tgaaacggtt accgcattcc ttgaaggcag catgcacgca 180
tgtctcccaa tgatcacgca ga 202

<210> 30777
<211> 123
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-F6

<400> 30777

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 ata 123

<210> 30778
 <211> 303
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-F7

<400> 30778

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 ctgagatcaa ccagctgctc tctactcatca tcaaacacctt ctactccaac aaggagatct 180
 tcttccgcga gcttatctgc aactcttccg atgcgctgga caagatcagg ttcgagagtc 240
 tctactgaaa gagcaacctc gatgcgcagc ctgagctttt atccacctgg tccaaaccaa 300
 ggc 303

<210> 30779
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-F8

<400> 30779

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 cttgggagcc agccgaagct caagaatgga gaaatgtcag ccatatgtcc agtcgtcagt 120
 cacttcccgt gacaagcaaa agttgtttgt ccgattcttt ggtgtgctct acagagtgtt 180
 caacaagatg aacttcatgc tgctgttgga cgacgattgg gagccactga tggataatta 240
 ccggcctttg ggaataaaat ctctgaggtt cagcacattt tctcttgga atatgtcacc 300
 aaagatagaa gagcaaaaaa ttcagtacac cattcatacc attggaggaa gcgtaactgc 360
 agttcatgga tttttgtcc aacttggtgt caatgtggat acgagtgcact gggagcttca 420
 aactctggga agac 434

<210> 30780
 <211> 211
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-046-Q1-K1-F9

 <400> 30780

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 ggtttaattc catccgaatc tcaagattgc ataaatgtca gccatatgtt cacacgtcaa 120
 tcacttacca ctacaatcat aagaatggtg accgaatcta tggctctgctc tacagagact 180
 tcaacatgat aaactttatg ctactgttgg a 211

<210> 30781
 <211> 201
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-046-Q1-K1-G1

 <400> 30781

 aaacagccac gtctcccaga tctaactccc tgcgactcac gaatcccaga gagcctgcat 60
 ggcgacgcac cgacactgcc tccgactact gctcgtggac gccgacctcg ccctcgccgg 120
 cgtacctgct cgcgcggcgc tgggctgagg tcgcggccag ctgctgagcg gataggacct 180
 gatccctgac gtgagcgact c 201

<210> 30782
 <211> 247
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-046-Q1-K1-E5

 <400> 30782

 cggacgcgtg ggaaaagaaa ctgctgatga tcctgttagc aatcagtagt ttgaggctag 60
 ttccacttgc actgtatccg atcactaaat tggcatgtaa ccatagagat tattaggtta 120
 ctcataccac gctctgatgt ccaaccatta atgtattggt ataatgcgac gcagggtata 180
 ccatgctcgt ccattccacg ggcgaacaaa cctcgaagag ttgatctgta ttattcaagc 240

tggtgca

247

<210> 30783
<211> 311
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-G10

<400> 30783

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tgctttatag acttccctct gtagcggtga aactttaatt gacacgatcg gattgaagca 120
aacaatgcat gtaacttagt ttaaattctct ggtctgtgta ttgcaacaat ggtgcagttc 180
at tttagcat gcatcgctcg caagtttgta gttaggagtc gtgattgaaa tg tttgtctt 240
tccaatcccg gcacaggttt tcttgtaatg ctatgacgac aatctattcg gattccatgg 300
ttttgtggtg t 311

<210> 30784
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-G11

<400> 30784

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tatattacag gccactgcat ggtgatatat aatctatctg ctgccctgct ttggaatggc 180
atcctttag gctgctaccg agatgttcac gacatgagtt gggctggaga ctgcacggtt 240
cagactatag ggactggtga aatcggtttag atgacgcgac gactgattgc aacgccacgc 300
cgtagccgaa ctgccatag acggctactgc cgtgctatct gattgatcca ttgttgata 360
cgctcgcatg ggatctgaat tgtcttgat agtgacacgt caatagacta cact 414

<210> 30785
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-G12

<400> 30785

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ggctatatatg acttgctga gaagcttaga aactctaata gctcagatca gaccgaagct 120
gacattacat gtcactgcat ggtaatgtat aatctatcta ttgcactgct ttggaattgc 180
atcattgtat gcatcttcca agatgttcac ttcattgactt cggatggaaa cagtacgggt 240
cacactatat ggacaggtga aatcgacttg atgacacgat aactgaatgc aacttcacgg 300
catagcagaa ctgtcatatg atgttactgg agtacgatct aatagatcc 349

<210> 30786

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-C7

<400> 30786

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gcacaggcaa ctatgccagt gcaactgttcc tcacagcagc taaatctaata gcattggaca 120
aagttgaatc tgagattaaa gctattgtag aggcttccaa gaagagcccg ttgttttctc 180
aattcataaa ggacttgtca gttccaaaag cgaccagggt gaaagctata gcccgaata 240
attgcttccg ctgggggtttt aaaatgtacc aagaaattcc tggcttgtcc tgccggccat 300
tgccagcctg aatttaaatgg accccttggc gaaaagattg gtggattgac ctatggacct 360
tagggggaa 369

<210> 30787

<211> 188

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-C8

<400> 30787

cggactcgtg gggtgatata atccaagtga ctttttgaac tagtttgcgt tctgcacttg 60
attacacttg gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagt aaaaagaata ctaaacgcaa 180
acatacaa 188

<210> 30788
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-C9

<400> 30788

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gctaattgttg ttgctttgaa gcattgcttc ttttcaacta ctgagaagga tgagctttat 120
ctgaacttgg tccttgagta tgtgccggag acagttcatc gagttgtgaa gcatcacaac 180
aagatgaacc aacgcatgcc acttatttat gtgaagctgt atatgtacca gatatgtagg 240
gcattggctt acattcatgg cactattggt gtctgccaca gagatattaa gccacaaaac 300
cttctggtga acccacacac ccaccagctt aaactatgtg actttggcag tgcaaaagtt 360
ctggtcaagg gggaaccaa catatcgtac atctgctccc gatactatag ggctccagag 420
ctcatatt 428

<210> 30789
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-D1

<400> 30789

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gtcggggaaa agcgggaagct gaagatccca tcaaagcttg gctatgggcc tcaaggctcg 120
ccacctacta ttgctggtgg agcaaccctc atatttgaca cggagcttgt cgctgtcaat 180
ggagaaccaa ccaaccaatc tgacgagctc tagattcatc atacaaatga atccattcac 240
cttgttactc ggaactcagc agatgtcata ctatgcaaga gatgagcctt cattccctgc 300
cacttgtata gtgtcgaaaa agagccagcg ttggaaatca aaaaatccgc tgtgtataaa 360
aaaaaaaaa aaaaaggcaa a 381

<210> 30790
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-D10

<400> 30790

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 gtttcgtggg tgagcggatc gagatggcgg cgtcggatgt tgagtaccgc tgcttcgtcg 120
 gcggcctcgc ctgggccacg gacgaccact ccctccacaa cgccttcagc acctacggcg 180
 aggtcctcga gtccaagatt atcctcgatc gggagacgca gaggtcccgc ggcttcgggt 240
 tcgtcacctt ctccacggag gaggcgatgc ggaacgccat cgagggcatg aacggcaagg 300
 agctggacgg ccgcaacatc accgtcaacg agggccattc ccgctgcggc cgtggaggcg 360
 gctgcggcgg ctactgtggt ggccgtggag gcggcggcta cggcgg 406

<210> 30791
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-D11

<400> 30791

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 gcggctgtgc tgaacagcag gaagacgccg caggtggtgg ccgtgctggt ggtggtggcg 120
 ctgctggctt cgtccgcgtc ggcggcgatc acctgcgggc aggtggggtc gtcgctggcg 180
 ccgtgcatcc cttacgcgac ggggagggcc agcgcgctcc cctcgtcgtg ctgcagcggc 240
 gtcaagagcc tcaacagcgc ggcgcggacc agcgcggacc gccaggcggc gtgccgctgc 300
 ctcaagagcc tcgccaacag cgtcaagagc gtcaacatgg gcaccgtcgt caccatcccc 360
 ggcaagtgcg gcgtctacgt cggattcccc atcagcatgt ccaccgac 408

<210> 30792
 <211> 357
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-D12

<400> 30792

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gccccagctc cttctacctt ttccggcgga ggtgaacacc gcctcctcta gcgcgccacg 120
atgaggccga tcctgatgag ggccacgagc gcccgctgac tttcctgcgc tacaaccgcg 180
acggggacct cctgtttctac tgcgccaaagg accacacccc cacggtctgg tacgccgaca 240
acggctatcg ccttggcacc taccgctgcc acaacggctc catctgaacc tgcgacgtct 300
gccacgactc ggcgcgctc attaccggat ccgtcgacca gaccgtcaag ctatggg 357

<210> 30793

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-D4

<400> 30793

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aggagaaaca taaaaccgaa aagagtgaag catgaactag taacgctggt aggatgacaa 120
cgcgccgttg tgtttcgggt ttgggcgaca gagagtttgt agccaatggt gctgatgtgg 180
ttcgtgggct ttgtgtatgt gcacagtttt acgtatatgt tctggtcgtg taatctatat 240
gtgtatataa acctgtatgg gtgttgatga ccatctaaag gtgtcgaaat attcagtagt 300
atatgtagct taaggcttaa acgggtgtgg ttataaaggc atttggcgtg tcgatgggaa 360
gtattatcat gttattttca ggactcaaga gtataaaatg aaataaaatg tgaattcatc 420
tgaaaaaaaa taa 433

<210> 30794

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-D5

<400> 30794

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gacggtgcag cttcaaccca cttcaaccct gtaatcaaac aagaaattag gttcaaccca 120
 tcaacttaaac caaacaagga acatgtccga cccagcccac aaaaatgggt tggtttcgac 180
 ccaaccact tcatccgaa accaaacgca ctataagata actgagagga tcacagctac 240
 ttgcacaaat tgtttgcagg agttcagaat gtttacttga tctgcggcta tttctgtaac 300
 ctggtcctga agtctgaatt ttg 323

<210> 30795
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-D8

<400> 30795

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 gggctctgtat gagggcctgg actggctgtc cagcaacatt gcgagcaagg cttgaggcct 120
 accttgaata tcaactgcga actgactagg agctccgggt gtatcatgga aactcaggac 180
 agaatcgag ttgcaacctg ttagatgtct tctaccggca ctatatatgt ttattgcttg 240
 atgtgtactg atgttactgt tcaacgctta ttaccctact atactgttgg atgttctttg 300
 gacctgtttc attcgacaa agaatggact ttcaatgtca tgcttaaaaa aatataatga 360
 tttatcttga aattatcttt taaaaatata gttgattatt a 401

<210> 30796
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-D9

<400> 30796

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 cggacgcgtg ggggcccggg cctgggcctg ggcttctctg cggtcagcgg cgtggtggcg 120
 tccctcgac tctctgtgat ctggagcaag gtggttcgag ccgttaccgt ggcctccttc 180
 tcaactctacc tggtcagtc cgtgaggtcg tctctgctcc ccaggcggcg gccccgggcg 240
 gtggtgaccg agaggcggct tcccctggac ggccgcgggc gcgtctcgcc gatccgggag 300

gttgacgcgg cgaccgagcc gtcgcggccg agctgctgct cggattccga caggggaagc 360
gacggccgca tgctgctcgt cgaagaaagc agcggcgctcc tggacgaatc aagc 414

<210> 30797
<211> 245
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-E11

<400> 30797

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tgcgacatgc aaaaggtatt aattatgaac acaacatccc tgattaatac ctcttgcata 120
atttacagct ccaatgctat gcgacatgca aaaatagaga gattaatcag ggatgttgcg 180
ttcataatth tgctaacctg gtttagcagt atgttggtgg aaaaaataa tgaaccatgg 240
aaca 245

<210> 30798
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-E12

<400> 30798

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tattgtacaa atcggttata aatgatggat ttaagctgga tttggagcat gctcaagcac 180
ttgagaagga aagaggtcac aactattaca atggaatgac aaaggaacag ttcacggata 240
tgcagaaatt catccagggc cggagttcta agaaaacacc atcaaagctg taggttgctg 300
gtgacattht ctgtgggtccg tgtacgatgt acagctactg aaagcgtgtt cagtagtctg 360
aaaaataaag atgtcggtgt ggcaatatat acagttaccg tcttctcata cttttacgta 420
agtttatatt 430

<210> 30799
<211> 442

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-046-Q1-K1-E2

 <400> 30799

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 agatttttga catcatgcaa aacatgcaag aatgtgggtca gccccccagt gatcttgtcc 120
 aagatactgt acctgatctg gatctgagca agttgggaca gctgtctcct gagatgcttg 180
 aatcagcacc aaattgttgc gtaatgtgaa gacaaaaaac attccacttg ggattcaatt 240
 ccatgaagtt tcttagcctg tacgaaccgc cttccccctt tctggccttg gtagattcaa 300
 gataatttcc atctggataa tctgtaaagc cttgcaaata tataatgggc tcaatgttct 360
 ttctggttct ttctgttatt tttctgtaac acttccgtcg ttcttatata cataccttac 420
 gtgtcgaaac cccttacgtt tt 442

<210> 30800
 <211> 217
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-046-Q1-K1-E3

 <400> 30800

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 ttcgtgggtg agcggatcga gatggcggcg tcggatgttg agtaccgctg cttegtcggc 120
 ggctcgcct gggccacgga cgaccactcc cttcacaacg ccttcagcac ctacggcgag 180
 gtcctcgagt ccaagattat cctcgatcgg gagacgc 217

<210> 30801
 <211> 497
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-046-Q1-K1-E4

 <400> 30801

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ccagtagacc aaagtattat gcgatgtact catgttgggtg aattattata ctcagaaggg 120
 gtgttnncct tacatattaa cagctcaact ctggctgtan naatggagta gaaatctcga 180
 cttegtcctt actgggttgg ttgggnngtg gtectggagg gcttacgttt attcagaagg 240
 ggcctacctc gtaattcttc tgcgcaaang gagaagttgg actcaactaa ttgagaagat 300
 caaagcantt cctttctctc acttacattg ctgtgaacaa ggatggagaa acattctcca 360
 atatttcacc gaacgccgtg aatgcttgta cgtgggggtgg tttccctggc aaggagatta 420
 tccagcctac ggttgtggat catgcaagtt ttatggtttg gaaagacgaa acatttgaaa 480
 tctggactcg ggggtggg 497

<210> 30802
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-C6

<400> 30802

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 gctctccacc gcctcgcgac acgcgtgtt gagatctctc acggcatggc catccccatt 180
 gagctatctg accgggaatc cctcgtgaag tccgcgtcca ctgctctcaa ctctaaggtc 240
 gtctcccagt actccaccct tctctcggc ctcgccgtcg acgccgccct ctccgtgggtg 300
 gatcccgctc aattataagc tgctgaaggc cgctgggtctg tttgcgggat ccattctcct 360
 gatgcggaac ttcggtgatc tgatggccat ttagtaagct tatcagcgtt gtttacttgg 420
 atcctatgga atgtgtttg 439

<210> 30803
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-A5

<400> 30803

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acctcgagct tgccaccatg gctagaggat tgaagaagca tttgaagagg ctcaatgcgc 120
ccaagcattg gatgctggac aagcttggcg gagcttttgc tcccaagcca tcttctggac 180
ctcacaagtc tatggagtgc ctgccactga tctcatcat caggaacagg ctcaagtatg 240
ctcttacata ccgcgaggtc atttccatcc tgatgcaacg ccatgtactt gttgatggca 300
aggtcaggac agacaagact taccctgctg gcgttatgga tggcattttc atccccaaga 360
ccaatgagaa ctacaggctg ctgtacgata ccaagggccg cttacggctt tacccaatca 420
gg 422

<210> 30804
<211> 193
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-A6

<400> 30804

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gctttcgctt catggtactg agtactgacg ctgtgaagtg gaacaagtac tctctcccc 120
aaaaaggccg gtagacccaa acatcttttc ttgcgggctg gtaaagccaa aaatttttaa 180
atgtactcga acg 193

<210> 30805
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-A8

<400> 30805

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ggttttggat ctttgggttt gatgacatca gtgttggtgt gccctgatgg aaaaaccatc 120
gaagctgaag ctgcccattg cacggttacc cgtcatttcc gtgtccacca gaaaggaggc 180
gaaaccagca cgaacagcat tgcttcgata tttgcatgga caagaggact tgcccacagg 240
gcaaagctcg acgacaacgc tagactactc gacttcgctc tcaaactcga ggctgcttgc 300
gttgagaccg tggagtccgg gaagatgact aaagatctgg cgattcttgt ccatggatct 360

tccagcgtca cgagaagcca ttacctgaac accgaggagt tcatcgaccc attcgttact 420
gagctccgat c 431

<210> 30806
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-B1

<400> 30806

accacgcgta cggtttggtg cgatggtgcc ctttctttta cggacagacg gtaacagaag 60
ttaagtgtca ttgtacatat tgaagatcgt gtcctattga atacaatatt gttctacgga 120
aaacaaaaat gcactactac ccaaatacaa caacgtcagg gccttcacgg acatcgtcgt 180
caagactgcy cagaagatca aagctaataa atagacggca actaggccca atatgcctaa 240
tgtcgagaac gaaccactct tcacggtgga gaagcccaac ctgaacacga aggaccaggg 300
cgacacgact gttagagaca tggt 324

<210> 30807
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-B10

<400> 30807

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ggttggaagc ttgttcagct gcatcataag aatccctttt taaaaataa aaaaaatata 120
aaaaagaaaa aacataaaac caaatatgaa aataataata caatatataa cgcactacat 180
aacacaaaaa cacactacta actaactaca acagatatag gatgacaaag caatgggcag 240
gacgatatgc tctacccaag tatccaacca attatttcta tctctaaaca cctctatatc 300
tgaacccaaa tcctcaatga caagataact tattcaaac gtactcgtct aaaaacctat 360
attttacaca 370

<210> 30808
<211> 182
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-B12

<400> 30808

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agaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaataa aaaatagaaa aagatgagaa tgaacatcac caccaataat ctaattataa 180

tt 182

<210> 30809

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-B2

<400> 30809

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ccggcgggcg agcggagatg gcggaaga agcgaggcgc cggcactcgc aaggatgagg 120

tggtgacacg cgagtacact atcaacctcc acaaacgcct tcacggatgc acctttaaga 180

agaaggcacc aaatgccatc aaggagatca ggaagttcgc tcagaaagcc atgggtacta 240

ctgatgtccg gattgacgtg aagctcaaca tgcacatctg gagcatgggt atccgcagtg 300

tgcccaagcg tgttcctggt aaaaatggcc ggaacccgga ccaataagga ggaccccaag 360

gaggaccttt acttt 375

<210> 30810

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-B3

<400> 30810

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tggacagcaa aggagaaaga atatgtagaa gctaatacata gattgaacat ctgccttgat 120

gagaaccgca aactttcaga agatttgatg aaggtgatgc aagagctagg gtgtttaga 180

gaacagtgc aaacaatgga ggataaactg gtgctttcca tgaagagtga catgaatgag 240
aaagtaatgg aatgcagcga ggcttgtaaa gcatccaacc aaattgtgga gaaaggagga 300
accattcctg gtgctgtgcg tgaaaatgag ctcgacaaac aactatcggt gattactgaa 360
gagcgcaatt gtttactctt tgagacacaa cagatgagat ccatgggtc 408

<210> 30811
<211> 305
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-B4

<400> 30811

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gcgtacagta cgtagtacca tggcgaagaa agtggccact ctgctggccc tcaacctcct 120
cttcttcgcc ttcgccgacg catgcggctg cagggtgcggc ggatcctgcc ctagtccagg 180
cggcggtggc ggtggcggtg gaggatctgg tgggtggtggt ggtggaagcg ggtgggggtg 240
ggagtggagg ggggtggatcg ggtggtggga gtggagggcg gggatctggt ggaggcggaa 300
gcagc 305

<210> 30812
<211> 127
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-B6

<400> 30812

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aaggaaaaga ccaaataaaa acaataaaaa aaaattaaca aactatataa ctatatctta 120
attatat 127

<210> 30813
<211> 235
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-B7

<400> 30813

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ctatgtttgc tgttttgtaa ggtgaatacc gatgctgttc cattactagg atctatactt 180

ggccaaaaca aatgtctaata ctgaggtttc gtaaaaaaaaa aaaataatag aatat 235

<210> 30814

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-B8

<400> 30814

tgtaactgct tccaatggga agacaattga ggtaaataac actgactcag aaggaaggct 60

tgattttgct gatactttta tctatgcttg catccaatgt gttgataaga ttattgattt 120

ggcgactctg accgtcgctt gcgttgcttc actctggcct agcatttccg gtattttcac 180

gccgagcgac tatcttgcca atgaggttgc cgctgcttcc gaggtatccg gctagaagtt 240

ctggagactg ccgctggatg atagctactg gtagtctatg aagtctggca tgtctgatat 300

gttcaacact gccgtcaggc ttttatgttc tatttacctc cgtctgttcc tgaacctttt 360

cttctacta 369

<210> 30815

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-B9

<400> 30815

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gaaggggtgg taattgagcc acctttggaa gtcgtcgtcc ctgcaaagcg cactccatgg 180

cctgaaacaa ccaccgagct gccagccgag ttattggatg acaagcaaga gcaggaggat 240

aggcgcttgt caagagccaa caaatcatct cggccccgag gcaccacgaa gcggaagggc 300

gaccctcaag gacaagataa ctgatgcaga acgtactggc cttgtgatgt atatcttaca 360
 ccctgcaaaa acacagtagc aagcatatcc tgtaaatctg gcggtgtctg ttttaattttt 420
 cttttcttt 429

<210> 30816
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-C11

<400> 30816

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 gtggcgctgg atgtaatcta gccttttgta gtcatttaag gcatcctcca tgggtagagg 180
 tgtctccttg gtatcaacat ccccgattcc gttctccgtg atgtagatag gtgggtttcc 240
 gtatttgttc ttcattgatca taaggagatc cttcaagccc tcagggtaca tgtagatcca 300
 tggatttccc ataggaggac caatgggctt cccgtcaggc ccgttaactt cttgactggc 360
 gtaggcgtcg tcagtgttga gcacagggtga gtagtttggg gagatatcga tgtttttgga 420
 gaaccgtgag gtgta 435

<210> 30817
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-C12

<400> 30817

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 ttaccagtgt tctataaaaa aggataacag tgctggcaag tttgcagggc ccggagcctc 120
 atctggtgct atttgagca gttcctggct ggctggccgg actttgtaaa gaaccgcctg 180
 agaactatgg cggccagttc cctgcacagt tgccatgcat tcttctcact catgctttct 240
 gcgtgcttca aattaggggc acgcactcac ggacctgcgg cggccactcc ttttcatccc 300
 cttcttccca tggatgggtg gttgggttca gtgcgtggct acctgcgact tgccaacaat 360

gaagagaaaag tcagaagact tcacacacaa gagtctctcc gggaaagaga gaaagggatg 420
gcgttttg 427

<210> 30818
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-C2

<400> 30818

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gtatggctac ctttataacc taaagcaata tatatatata tacactacct atcaagtact 120
acccaaaatt ctactgcgtc atccacaccc acaaggaaag ctacctgcac tatggctatg 180
cctattcaat taggcgagcg accaaaaatg ctctagagcg gtgtcacttc tatcaaagct 240
acatctgtgc tccctacctc catgcgctaa actgtctctc atcaa 285

<210> 30819
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-C3

<400> 30819

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atgcagggca tcaccaagcc ggcgatccgg aggttggcta ggaggggagg cgtcaagcgc 120
atcttcgggc tcatctacga ggagaccgc ggtgtgtctca agatctttct ggagaacgct 180
attcgtgacg ccgtcaccta caccgagcac gcccgccgca agaccgtcac cgccatggat 240
gtcgtctacg cgctcaaacg acagggccgc accctctacg gcttcggcgg ctaggtcgct 300
tactcatctg gtggcgaact gcatgtgttg tcgccggtgg ttgtgttgtg tgccctaatta 360

<210> 30820
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-A4

<400> 30820

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ggagtgggtga tatgacaaac gaccggggga gaatgaggag cagatcacgt tctccaacaa 120

ggcatggcta tggaagatct ggaagtccaa atcattagct gaatatttag atagttttat 180

tcacagttag gactcatgag ctctgttga accctacagt cttgcttttt acatgagaaa 240

aaaaaaattc tcagttaaac tcgtaaggcc ggtactgaac ttaatgtatg gataataatg 300

ttaccagatt accagtctat agcaggaaaa ccttgacctt caaggtttgg ggtacacaat 360

ttttttaatt gccttgagaa cctttgttaa aaacttaatt ctggctcttg gcctaaaatt 420

ttttcaattc ttaaggcaag tatttttttt 449

<210> 30821

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-H11

<400> 30821

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cttgtcacca tattctcggc ccccaattat tgtgggtgaat ttgataatgc tggtgcaatg 120

atgagtgtcg atgaaacttt gatgtgctca ttccaaattc tgaaacctgc tgagagaaaa 180

aacaaattta tgggggtccaa caaaatgtga tagtgaaagc cattttgctt ccagcagctc 240

tagcctctta aggttctcct gtggatgcat cgagacaaca gcatgctggc gccaaagtttg 300

agggcagcat tgggctacta tcagagaaaac caaataatcc catacctaac tgttcatctg 360

gaagttactc atcatgacaa gtgctgaaa ttttctctct ttctgttac cttgtgtcag 420

aacattatgt agctgtagat atat 444

<210> 30822

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-H12

<400> 30822

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 aaagaactgc agtcaatgca cccagaagat aggcacattg ttgttctcaa gcacaatgtt 360
 tggcgtgtta aaggactaat tcaggtttgt agatcaattg gtgatgcata tctcaaaaag 420
 caagagttca acaaggaacc cc 442

<210> 30825
 <211> 372
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-045-Q1-K1-H4

<400> 30825
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 cctccagcca gcctgactcg ggggtctcggg caggttccgc cgcacgtgtg cgtttcttcc 180
 ctttccggt tccccggtc agttcagctt cggttggctc gccgtactcg ggtttgttcc 240
 tcgcctcgct tcgcttncct cctccgcagt cctcgtctcg aattcgctcg cgggtgggaga 300
 aatcgngcg cgaggatgac cgtgatcgac atnctnacc gggtggacgc gatctgccag 360
 aagtacgaca gg 372

<210> 30826
 <211> 447
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-H5

<400> 30826
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 cactaccacc ccgtgtccgc ggacacttac caagacctcg aggctggctt ctccggccac 120
 tcctcctccc ctctgaagcc cgcggcctcg ccgaggcggc ccggccgcat gttctgcgac 180
 ccctgcgacg acggcgacga gctccacggc cgccaccact acctcgacat ctgcttccgg 240

tgccgtaaac tcctgtccgg caacagagac atcttcatgt acagaggtga cctgccgttc 300
 tgcagcgagg agtgccggca ggagcagatc gagatcgacg aggcgaggga gcagcggctg 360
 aagcagacgg ggcgggccga gcagcagcgg cagcggcagc agaagcagag cccccagagg 420
 atccccatct gggcgtggta ggatgag 447

<210> 30827
 <211> 403
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-045-Q1-K1-H6
 <400> 30827

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 cccaccgcct gcgccgccga caacagcgta gtgtagtgtg gttccggaga gggttgggga 120
 gagtagtagt gatccgcaat gtcgacggag gaggctgttg tggctgacgt cccggtgacc 180
 gaggtgccag cggaggtccc ggcggcccag gtggccgagg cgccaaggc gaagaaggcg 240
 cccaaggaga agaaggcgcc taaggagaag aagccgtccg cggcgaagaa gccggcgggcg 300
 caccctccct acgctgagat gattgtagag gcgatcgctg ccctcaagga gaggaaggng 360
 tcgagctcgg tggccatcag caagtacgtc gaggggaagc acg 403

<210> 30828
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-045-Q1-K1-H8
 <400> 30828

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 gaccaacctc ggcgagaagc tgaccgacga ggaggtcgat gagatgatcc gcgaggccga 120
 cgtccatggc gatggccata tcaactacga ggagttcgtc aaggctcatga tggccaagtg 180
 agtaaagcct gcggtaacgg tatagtaccc ctcgggaatc gaaggaggaa accaaaccgt 240
 gcatcgcata ttagaaaggc aatgcaggtc ttgtttcctt cgttttcccc atgaagaaac 300
 cgtactagct gtagctgctg aacgtttgag tccccctgct gccaccctta tctccatttg 360

tgtcatcgaa actccgtgct tcccctgctg tgtgaatctg tacggctttg cgtgttctgg 420
 aactga 427

<210> 30829
 <211> 442
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-045-Q1-K1-H9

<400> 30829

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 ctctccttct gagagtgggg caaatattga cttggacgac gttttatctg ctgcgagac 120
 agctgctgaa tcagctgagc gagctgcac agcagcccggt gctgctgcaa accttgacac 180
 actgcgcatc tcagacctga agaagaattc caaggtttat agcaattacg gtgatagcgt 240
 ccaaaaggaa agccatcatc agactgaggc gacacagaaa ccggtatttg atcaccagga 300
 ctcttcacc aatgatacac atgactatgt gtcacccat gtgccgcaga ggtcgtcatc 360
 tttggaggac gatccatatt tctcgtatcc caacttggtc tcagcgcaa agccctgata 420
 gcgggaacta gtgggctgca ag 442

<210> 30830
 <211> 305
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-A1

<400> 30830

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 accggcgacc cgtacccctt agcccgagga gcgagagcga cggagctgac cgaggcgag 120
 ctgagcacgt actactgcag ctaccgctcc aagcgcatct acgtatccgc tcggggcagg 180
 tgctactaca tcagctccgg ccgcagctac tacggacgag gcagcgcta catcgtcttc 240
 acaggccgct gagccaagca cgccactcgg aacatgtcca atgacgaggc ccacgtctac 300
 cggga 305

<210> 30831
 <211> 405
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-046-Q1-K1-A10

 <400> 30831

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 cgccggggga gaggagagga ggggagggga tcgggtccaa ggaacaggt gagatggcaa 120
 tcctgtacgc gctggtggcg cgccgacacgg tgggtgctggc ggagcacagc gcggcagcca 180
 ccaacgcggg cgctatcgcg cgccatgtcc tcgagcgcct tcccgcggc ggcgccgaca 240
 gccacgtctt ctacacgcac gaccgctaag tgttccacgc caagcgcacc gacggcatca 300
 ccgggctctg catggccgac gacgccgccg gaagacggat tcccttcgca tttttggagg 360
 atattcatgg aaggtttgtc aagacatatg ggcgggctgc gctaa 405

<210> 30832
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-046-Q1-K1-A11

 <400> 30832

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 cccgcagctg acgcctttct actacatcgc agtcggggcc actgatgcct ctgctctgca 180
 accccttcac gcctgatctg agagaccgca tctgcatcag aggagaggtt accttggaca 240
 acgcatccca ggtgtggaag aagtacgagt gccagagcac cagcgtctca ggaggagccg 300
 agatctgctc gactgtgggg cgcgtcaccc ccagcatcta ctggcagatg accgcggtcg 360
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 cct 423

<210> 30833
 <211> 429
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-A12

<400> 30833

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aaaaaaaaaa aggagtcaat cgccggcgac gggtaggggt gtacgcttga ggcgatcggc 120

agagaagacc gagaccgacg gctccagtgc cgctgtcact gccagtctgc cacagctagc 180

cgcctagctt gatccgcctt ttgtgctgtg cggatatgag ggccgcgcag gtcgatccgt 240

tccccgcggc gccgccaag tcgcggtga agcgctctt cgagcgccag ctgctgcggg 300

tctcgccggc cgagcgctc ccgtcggcgc ctcccggtgg cggggagaag gatgagctgc 360

cggagcctag ctgctgtgc ctggacggca tggcgaggag cttcctggag gacggcggcg 420

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<210> 30834

<211> 59

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-A2

<400> 30834

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<210> 30835

<211> 58

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-A3

<400> 30835

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<210> 30836

<211> 282

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-H1

<400> 30836

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aagaatcaat tttaaaggat 180

caaaaaatta aaaaaacaat aaaaagaagg taaaaaaaaa taaatcgggt aaaacaaatt 240

aaataacctg gccagtgtta aaaaaacttc atgactggaa aa 282

<210> 30837

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-F4

<400> 30837

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gctgaggaca gttacaatgt agaagacagt acatatgaga gtacatcgat tgacgcagcg 180

actgacgaaa ctgctgagca gaacgtggat gacgcaattt ctgacgcagc 230

<210> 30838

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-F5

<400> 30838

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ttacgcgggt ttcggcccca gaaacaacta gaaggtccat cgcaaatcca acctgcaaag 120

gctgaagacg aatacgattt cttgcacgac ggcagaaggc aggccgaagc caggctacag 180

agagcacttg cccgggtgca ctctatgtca cagtaccag aagcgagaga gcagtaccac 240

aggcttacia cctgcgttgc tgaaatgaaa cagtccagga tgatgcagga tgagatgcta 300

agccaggcgg ctggtggtgc ggacgatttc atggctggac tggaggactt gatctgcata 360

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<210> 30839

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-F6

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ctgctgccgc cctccgctgc gtcgtcactg catcgagaga tacctcctca tctcgcttcg 180

ccgtgtctgc gccggtgtct gctcggctct tctccgcgga tgcacccggt gaagccgccg 240

ccacggccgc agagtcgcag gatgactctt tcttcaaggc atcccgcgaa ggattagcct 300

atggaagggt ttacagtgtc attggtggaa gcagtcgtct tgagaagaac atattgaaaa 360

ctgatattat ccatcacctt gacagatgtg gattgtcatt ggatgatgtg 410

<210> 30840

<211> 419

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-045-Q1-K1-F9

<400> 30840

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gatgcaaaaa tttgcaactc ttatgggtga tggacttgat tgaagaccat ggtcttgctg 120

ttgtggcatc gtcttgtaac aaactgcagg agttgcgggt tttcccttct gtccttttcg 180

aagcagctga gcaggctctt ttgactgaaa gaggtcttgt tgatgtatct gccagttgcc 240

caatgctgga gtcagtcctc tacttttgca gacggatgac caacgaggcc cttattacca 300

tcgcgaagaa ccggcccaac ttcacttgct tccgcctatg catcattgag cctcgcacac 360

cagattacat tacacaccag cctcttgatg cangttttag tgccattgtg gaatcatgc 419

<210> 30841

<211> 423

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-045-Q1-K1-G1

 <400> 30841

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 gatgatggtt caggaagtgg aaaggagtgc aagtaccttg gcaacatttg atgaatcaac 180
 aagtgttctc cggaaggctg aagggtgaata tcaaggacac cgctctttgc taatgcgtac 240
 ccgtggtttg ctctccacga tgcaacagca agatgttctt gataggatca tcctgaccat 300
 cggctttatc attttctcct tggcggttct ttatgttgtc tcaagacgta ttggtctatt 360
 gacgctgcaa aagaaactgg ccgatgccat cagatccggt tcattatcag ccgatgacat 420
 cgt 423

<210> 30842
 <211> 441
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-045-Q1-K1-G10

 <400> 30842

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 gctttcataa agaagtccaa aagtgcttga gaaacgcaca ctacctaaaa gatcgctca 120
 cggaagcagg aatcgagcgc atgcttaacg agctcagtag cacagtcgtg tttgaaaggc 180
 caaaggatga agaatttgtc cgaagggtggc agctggcttg tgaagggaat atagctcacg 240
 ttgtggcgat gccagtggtc aacattgaca agctagacta tttcctgaat gagttagtgg 300
 acaaacgggc gacttggcac caggacggga taagccagcc accctgcatt gccagagacg 360
 taggtgttga gaactgtctc tgtggccttc acaagtagcg agccttttgc tttgcaagtg 420
 ggttcactct tgagtcgagt t 441

<210> 30843
 <211> 267
 <212> DNA

<213> Zea mays
 <223> Clone ID: LIB3067-045-Q1-K1-G11
 <400> 30843
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 acgcgcgcct cgaggggagc gccttacgac actacgcggg cgcgccaaac gcccgcgtag 120
 ccgacctccg ggccgacagc atccgcacgc agacggccgc cctaggacta caccacccgc 180
 tgcggtctacg aaacagcaac cgaggcttag ttctcccgat cgcgtaccgc gcggtctaca 240
 gcgacgacag ctaccgtgga caccagc 267

<210> 30844
 <211> 422
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-045-Q1-K1-G12
 <400> 30844
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 tggaacatca tctaccctgt ctacctcaac tccaagaaga cggtcgccga gggccgccgc 180
 atcgccgctg ccaaggcctg ccgggacccc acctgcatcg agatcgccga ctgctgttcg 240
 cactcaaga tccccacgc catcgagttg gataaggcgt accctcggga tttcttcag 300
 gtggggaggg tcagggtgca gcttaagaaa gatgacggct ccccgctcaa tctgcgatt 360
 aaaacgaaga agcagctgat gatccaagta gcagagctag ttccaagca tcacggaagg 420
 ac 422

<210> 30845
 <211> 361
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-045-Q1-K1-G2
 <400> 30845
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tggagatgat ggatatacag gacgctgtca atgatcccag tgatgctcaa accctggaga 120
ccatccaatc tcaggttaac gcaaagctct gaaacatgat gccgattcct tccaggaggc 180
atactacaag aaggatcttg accgcgcata agaaaccaca caaagaatga cgtactatga 240
acgagcacta gaagaaacag tctagaagct ctgagcctgt catctactgt tacacctgcc 300
ataagtggta aggcattgtat cttttcctac gttcctagta catcctgctg tagctgacgc 360
a 361

<210> 30846
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-G3

<400> 30846

agccgccaag cacactcacc actctctctt cattacctcc atataggccc cctacattct 60
ttgatcagt atcactctcg ctgggtctca cccctcccg cagacggcca aacagaacct 120
acgcgtgcgc gcgcgccac gagcgagcga tgctccct cgcgcgcgcg cgctccatcc 180
tgctcctcct cactacgtg gcgcctccc acctcctgt gcgcgcgcgc gcggccacat 240
tgccggaccc cgcgcgcgc gaccggcac tggtcgcgac cccggtgcag cccgcgcgcg 300
ccgttcggg gggcacgac cggcggtcc ccgcgcagtc ggactcgtg gcgggttcct 360
cgccacgtg cccgcttcgc ccttcccg 389

<210> 30847
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-G4

<400> 30847

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atttctccga agaagccgac ttcgatagca gaggtggcga agcagcgcga gctgagcggc 120
acacttctga gcgaggacga cagcaagatg aagaagcaga tatcggaact gaaatccaag 180
gagctgagcg gccacgacat ctttgctcct ccggaagacc cacggccacg caactcagag 240

aacggctcga cctcgagac cccgggcaaa aatgcacacg taagcaactt caagttcggc 300
gaggccgacg aggacggcat ggtgaagacc gcgaagaaga tccccacaaa gaaaatcacc 360
gacctcgcg gcaatatctt caaaggcgac gagaccccc c 401

<210> 30848
<211> 108
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-G5

<400> 30848

gtggatgcgg tttattcaaa aattttaaat ataaaaacaa aaaaaaaaaa aaaaaaaaaa 60
gaaaaataa aaaaaagggc ggtcgatata aaaagaatgg ggggtcct 108

<210> 30849
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-G6

<400> 30849

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cgccggctcg acgcaggagg aggaaggcca cgcgccacgg cacaggccgg cagggcaggg 120
cagagagccc atccaaccgg ctgctgcgctc tttttacctt cgtttggtga cgaaaccgaa 180
tggcctccct cctcctgac tccgaaagat ggagacggag ggtttggttt gtgcgtgagt 240
ttttgcacgg ttgcacgagt gaaatgggtgt gcgtgctgat cgccgtgtaa accctgtcga 300
tacggtatga aacaagcgag aggcctaaac aagtcctct cgaatttctc gtc 353

<210> 30850
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-G7

<400> 30850

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aacagggtcc cttcttattc agaccaaacg tcggaagaaa tcatgaagat agttcaagat 120
 gcaaggacca tgccgaaatc atccagatca ggctatgggt ggagcagtga gtattcggat 180
 gaagaagaag agaaggaaga ggaacacaga ccagaggagc atgaggaaga ggaagatgaa 240
 tacgatagga gggatgaagga ggtccatgca agcggagaaac tccgtatgga cgctcttcac 300
 atatgaaagc tagtgggaaga gaaagttgca tgtagataac tgggttgttg cggatctgaa 360
 ggatccagtg ggatgtatgc agttttggct tgagaacatg gtagtctggt gtctcgggtg 420
 attaaattat gttacatgaa aatt 444

<210> 30851
 <211> 395
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-045-Q1-K1-G8
 <400> 30851

gcacgcgtcc gctgacgcgt gtgtcttccc acgtgtcctt ggacgcctgg gcggacgcgt 60
 gggcggacgc gtgcacgacg ctgacgacct gcgcgcgacc gaacgacct ccgtcgccac 120
 catgacgctg atcgacgggg aggacttcca gcatatcctg cgtaagctga acaccaacgt 180
 acgataggaa gcagaagatc atgttcgaca tgacctcaat gaagggtgtc gggcgccgct 240
 tctgcaacat cgcttcaag aaggccgaca tcgacatgaa caagagggcc ggcgagctga 300
 cacctgatga gctggagcgc ctgatgacag acgaggccaa ccctaggcag atcaaggtgc 360
 cggactggtt cctcaacatg aagaaagcat acaag 395

<210> 30852
 <211> 395
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-045-Q1-K1-G9
 <400> 30852

cccacgcgtc cgcgctcgcg cgctttcggt cctcctcttc ctgcgctcc tcgcggggct 60
 cgccttctc ctctaccgt cgcgcccggc cgcccgctc gccgacctcc gtgtcgacag 120
 cttccgcgcg cagccgcccg tctcggcct cggcctcgcg ctgcggtcc gcgtcagcaa 180

ccccggcttc gtcctcccg tccgctaccg cgcgggtctcc gccgccgtct cctaccgcgg 240
acacctgctc gggggccgcca aagcgtggcc cgggtccggc gagcttgccg ccagggatga 300
ggtctatgcg gatgctgatg tgtgggtgga cgcgggaag gtgctggatg acgtgatcga 360
gctcatcggg gacgtggccg cggtgtcagt gccgc 395

<210> 30853
<211> 372
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-045-Q1-K1-F3

<400> 30853

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gatcagttat tcacgtacac agcaggtaca taatatggac atcatcacac agtgctcaaa 120
atagtataaa aggggaataa tggttgatta catcatcagt ctgagacgtc catatagttc 180
ttacaataaa tcaaagtgcg gaaaagaaac gtagataatc gcggncttca caggcagccg 240
actggggggtt gccgctaacc cacacctaga actcgtcgta gtcttggaac tcctggaagt 300
ctcctccaca gttcatctt cgctgagca gtggttgcaa tgctgacaac ctggggggggg 360
ggggtttggt gt 372

<210> 30854
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-D9

<400> 30854

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acaatttcag gaaatccctc tggatctgaa gatgattgag gcggaaaagg ctggatttga 120
gatcctgaaa tctactatgg tagagaagct cccaatgat ctggaaggaa tggagtcac 180
gatggggaag ctttacattc ttatcgatga gatctacaaa tacgtcgatg atgttggtga 240
aggacgcgtg gcacccgaca acagaattgg aaggttcac 300
gccgaaattg tccccggctg ctttcgataa gcttttcaat gacaagattc aggataacct 360

tgcgctggta tacctgtcaa gcatcacaag gacacaaatc agcatcgccg agaagttgaa 420
 cactgctgct caagtg 436

<210> 30855
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-E1

<400> 30855

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 ccgaaacccc aacctggagt ttttttcttc tatgatttct cacctataaa ggtgatattc 180
 acagaagaaa atagatctct actccactac ctgacaaacc tttgtgctat agtgggaggt 240
 gtgttcactg tctcgggtat cgttgactcg gttatatacc acggacagaa ggcactcaag 300
 aagaaaatgg agctaggtaa atacagatga tcaacatcga ccttgtactg gccccatcgt 360
 ttccaagttt tgtggcatgt aaggagggga tatgcctgct aaatacgaca agatgccact 420
 tac 423

<210> 30856
 <211> 446
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-E10

<400> 30856

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 caaagtcttc tgggttatct ctttgaagc ggtgagcccc ccaaaccagc agtggcacca 180
 gctgcaagtg ctccacctgt tgagaaacca tctgctgcaa agactgatgc ggccaagcag 240
 gttgctgctg gggttaccag ccaaaccaat aactaccaca gggctgatgg tcagaacact 300
 ggcaacttcc ttacggaccg tccttcaacc aagggtccacg ctgctcctgg cggtggctct 360
 tccctgggct acctgttcgg tggcaactga tgcccgtgct ggtgcgctca ccaaagttat 420

ccctccctgc ctgctgcgtg ctatgt

446

<210> 30857
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-E11

<400> 30857

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ttctgcatc gatggcgacc gaggtggctg agactcccgcc gccgttggtg gaggcgggtcc 120
ccgagacccc cgcggaggca ccggcggcgc ccgccgccga ggcgaagcct accaaggcca 180
agaaggcctc tgcgccaag aagcgtgcc aaccgaccca cccgccgtac gccgagatga 240
tctcggaggc tgtcacgtcg ctcaaggagc ggacggggtc cagccagtac gcgatcgcca 300
agttcgtcga ggacaagcac aaggacaagc tcccgcccaa cttccgcaag ctctgctcg 360
gccagctcaa gaagctcgtc gccggcggca agctcaccaa ggtgaagaac tcctacaagc 420
tgcccgacg cgccc 435

<210> 30858
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-E12

<400> 30858

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gcttcgtcgg tcgcttcgcc agccgccagg tcttcgtcgg cccatcccc ggtcttcgtc 120
cttcaatcct ccggcgacga gcacccacca gaggtggga actccaaaga ggaacagggt 180
ccatggctgg aggcgcagga aatggttcga acgaggcgt gcaggcaaag gggagtgggg 240
gtgatagctc cgccgccaag ccgtgcccc cttgctgcgt caaggcgaga gcggcggcgc 300
ccgagtctga ggccaagtgc catgccaccg tggtttcggg atggttcacc gagccacgat 360
cacactgcgg taaagccagc aaggttcagt attacataa cccaatgtgg ccaggagagg 420
ccattcctt gaaagtggag aa 442

<210> 30859
 <211> 271
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-045-Q1-K1-E2
 <400> 30859
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 caaacgcta caatgtgtgc tttctagctg cattaagctg cttactacga gtatttgggc 120
 tgtggctttc tttttcatgt atctcaccaa atcgttattg ttgtgagagc tatactacac 180
 ggtggtatca agagtatcac aatgcccaac aggcgatgga ttgagctttc ctaatttttt 240
 catgataaat taagttctat tccctccgtc c 271

<210> 30860
 <211> 413
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-045-Q1-K1-E3
 <400> 30860
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 gtcgaccctt gcagtttgcg tagaggagaa gctgaaggag ctgcaaaaaca aactggacgc 120
 catgtctttg aagcagcccg ggcgatgacga actttaaaaa ctttagaata ttccagcgtg 180
 aacataaaga agatgtcacc aggaggcata gctctgacag ttacatccat aacatgatag 240
 gcatggaagt caatgaggta tatggacaga aacgggcca aacgagagaaa tgagaatgta 300
 gagtttaggt cgcctaccag gctatattag ctgcataga acattttttt tagctgaaat 360
 ttgatgttgc aattttccag actcatctga tggaatatat agtaagaaac agt 413

<210> 30861
 <211> 391
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-045-Q1-K1-E4

<400> 30861

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cagcagcaag tcgtcgtcgt cctcgagctc ggcgcagcgg gcagctgccg cactgctcgt 120

ggccgtcgtc gtggcggtgt ccgtcctggt ggtggggcgg gcggcggtgt gcgacatgag 180

caacgagcag ttcatgtcgt gccagcccgc ggcggccaag acgacggacc cgtcggccgc 240

gccgtcgcag gcgtgctgcg acgcgctggc ggtggcggac ctcaagtgcc tgtgcggcta 300

caagaactcg ccgtggatgg gcgtctacaa catcgacccc aagcgcgcca tggagctttc 360

ggccaagtgc ggccttgcca cgccggccga c 391

<210> 30862

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-E6

<400> 30862

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catcgaagaa cccatgccaa gaattcttcc atcttcccaa ctgaacaatc atcggaaaat 120

tcggcatgat tttgtacttt caaagaaaga gtttgttgat tcttattggg aaacactaga 180

gtgttggtat ttaacagctg gtttggctga cccgttaagt gccttccctg gcagttctgt 240

cccggaggtt tgtctcatct gctgtacatc attgatgcat aggattatcg catacgttga 300

ataaatgtac ttagcgctg tttggttgct ccccaactta cataaggtag cttctgggca 360

tgggcagtac ggtgagaaac a 381

<210> 30863

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-E7

<400> 30863

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agccaactga tgaggaacca tttgctccaa ataatccaaa aggttttgtg gggaaagctc 180
 ttggacagcc gtgcctgaaa aggtctgtac gggttgggga gacaggcttc atagaggttg 240
 ctgcttacct actcgactat ggtcactttg caaatgttcc taccaccatg ctgggtccaga 300
 tatcacacac aatcttcaat gtgaactac 329

<210> 30864
 <211> 385
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-E8

<400> 30864

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 ttctaaagaa aatcaagatg cagtttccaa aatgattgat cagaatcaac attcaaaaga 120
 agaccagctt aaacaccttg aaaagatctc cggcgctgat gcagtgggga ttgccaagga 180
 cagagataat ttgaaatctg tttttatcac tgagactgag caccaagatc agaagccaaa 240
 tgctagagga cgaaaaggat ggtacaaagg tcaaggtcag atgcagcaaa atgcaaaca 300
 acaaggcagt tgtggttccg agtcattaaa caagcctatt cctggaccga gaatgccaga 360
 tggaacaagg ggcttcacat tggga 385

<210> 30865
 <211> 385
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-F1

<400> 30865

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 ttccatttga tgttttgtcc agaatccttt ctgcacacc taagctagag gatttaggca 120
 caggatcctt tttacaaggc aatgaccctg ctgcatatgc cagtttatgt agagctcttg 180
 agaactgcac ttcactgaag agtatatctg gtttttggga tgctccaggc ttttatgttc 240
 aaggaatttt gtcaaattgc aagatcagaa atcttacatg cttgaatctc agctatgcta 300
 cattgattca gagtaccag cttatcggtg ttattcgtca ttgtaagaag ctccatgtct 360

tatgggtgtt agatcacatt ggtga

385

<210> 30866
<211> 344
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-045-Q1-K1-F10

<400> 30866

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aagcttaaag nagcaaccgt cattggagat ggactggagt gaagaccatg ggctggctgc 120
cacacgcata gacttgataa caaactgcta gagtagcggg tgctgcttta tgctgctttc 180
taagcaactg agcagggtgtt tgtgactgaa agagggtctcg ttgatcaatc tgacagctgc 240
ccaatgctgg agtcaagcct ctacttatgc agacggatga ccaacgagcg cccttattac 300
catcacgcag aaccgtacga acttcacttg ctctcgacta tgca 344

<210> 30867
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-F11

<400> 30867

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agcacttcga gggcgtgaag cagcactggg cgagcaactt cgccttcctc gactattaca 120
agaaggctta cggccgcgcc gagccccctc ccaagtggc cgacgccgac gtcgacgagt 180
tcatcgctc cgacccggtc tacgggcccc agctcaaggc cctgcgggag tcgaggaagt 240
tcgcgcttgt cggggccttc gccggcgccg cccacctcgg cggcgctcgc ctcaagtact 300
ccaaggcgcc gcacggcgtc gtgctggcga ccgggttcgg ggcgatcacg ggcccgctgc 360
tgggggtccga ggtggcgga cactggtacc agctctaaa gatggacaaa gcagggg 417

<210> 30868
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-F12

<400> 30868

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ccatattccg gatccagtgt caagttgaaa acaaatttag agattttttg ttgtcaaaga 120
actttgttgg gatccacacc ccaaaattga tttctggatc tagcgaaggg ggtgcagctg 180
tattcaagct tctgtacaac ggtcaacctg cttgtttggc acaatcccct cagttgtaca 240
agcaaattgc tatctctggt ggttttgagc gagtatttga ggtcggccct gtgttttagag 300
cagaaaattc aaacacacac aggcatttat gcgagttcgt tggctttgat gctgaaatgg 360
agattaagga gcatcatttt gaggtctgtg acattataga tggcctattc gtatcaatat 420
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<210> 30869

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-F2

<400> 30869

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gcgagcattg ctagccaagc tgcaggggtc cggagcggag accggatgag ggagacgtcg 120
cttgcgatgt caccggcagc atccgcgcgc gaaaccatcg tcgtcgcaat cgcaagcgtc 180
ccgagccagc agcagagcag ccaccgcgcgc gcggcgccgt ccgtcccgtc gtcctacgcc 240
gtctgggaga aggagcggta aggcgtctgc agctttacga cgtcgtcgtc gtcgtcgtct 300
gccacctacc tactgctgct gctgctgcaa ggggaaagta aaaggaacgg aaagggggaa 360
ggca 364

<210> 30870

<211> 190

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-D8

<400> 30870

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 ggtaaattaa tgacagcgca gtgcgctgaa taaagcaaaa aacatacggg tggcagggct 120
 ggggctttcc tgctcaggtc cgggatcttg ctgctattgg agcgagtgtc atgctcctcg 180
 attgtattac 190

<210> 30871
 <211> 198
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-C2

<400> 30871

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 gctcccgttg gacggcctga ttggttactt tgccctgttg actgtttgag aacgtaccgc 120
 ccaggtttac ttatacttac tgctttttga cggtagtcta catacagttc gacaatttat 180
 ttattggcag ttcaattc 198

<210> 30872
 <211> 438
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-045-Q1-K1-C3

<400> 30872

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 atcgagagga cgccagggcc gattctctgc gtgacttggg gcgtcgtcgc cgagttttct 120
 ccggccgagg gcggcgcgac cggacaacca gcgtgagcgc gaccggcgac atgactcgcg 180
 gcaaccagcg tgaccgcgac cgtgagcgcg cggcgggcgc gaagcccaac gccagaact 240
 cccaggacgg gctcaccctg gagcagcgcc gcgagagga caagaaagct ctggaggaga 300
 aggcggccaa gaaggcgag caggcagcgg ccggcggcac cggtagctnc acggacaaca 360
 acaagaacaa ggcattgtggc aagaaatatg aggcagtggc gcgccggcac ctctgtacga 420
 ttaatcgatg ccttgagc 438

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-C6

<400> 30875

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cagtgccgct gccagacaaa gccgctcgaa cacatcgagt cgggccatac gcgccagctc 180

gcgggcgagc ccgatgcggc ggtgttcccg gacatcgccg agcgcctgag cattccgcag 240

ctgatcgccg cgtacacgat ccatggcgcg taccagctcg ggatggagca cgagatcggc 300

tcgctgacgc cgggcaagcg cgcggatctc gtcgtgctcg agaacgacct gttcgaagtc 360

ggccagtacg atatcggccg catcgacgtc gcgctgacga tgatggacgg cgacgtcacg 420

cacgtcggcg acgatttcgg cgcacgca 448

<210> 30876

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-C7

<400> 30876

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caggcttgag agctagtgcg gctaaatcct tccttgatg tctgatgcga ttcaaattcca 120

attcttttgc gctttggttg tagagggttc cgtagggttc ggtctaaaat cgtgtgcttt 180

gcaagatcag cttcttggtt ggacttcgaa actgaaacct ggtccaggca atcggcaaat 240

catcctgccg tcttgcgata ctgtatccaa gccagcttaa actcacctgg atctgacgtc 300

ctgattttct gggccctttc ggctgcacat g 331

<210> 30877

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-C8

<400> 30877

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tcagtttggg cctccgtttg ctacgctaag gcttgatttc tctcccgta agttgactgt 120
gccttcaccg tctcttgctt caaagcctcc actccgagat attaggaaga accttgagga 180
tatgatttca gcccgtcggt cggtcttggc aacctcatca gatgggcagc tgaatcctgt 240
tccagataag cttctggggg agatgcaggg ccttttggca aacgttgaca ggatgcttac 300
taggccgtct gagaatgctc cttagctctg ccaatctgaa ggattatggc tgtaacctat 360
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gaactac 427

<210> 30878
<211> 372
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-045-Q1-K1-C9

<400> 30878

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agtgcctgca aagcaaacc aaggacattg aggtgctgct ctgctagcgt acgtgctaca 120
gcatgtcacg taaggtagac gacgacgacg actacattga acggagggac actagacgaa 180
gtgatcacta gtgggtgcat gatctacttc tttattatgt gccagtctga tgcattgacac 240
acacgtagct aggacatctt tgctacgacg acgactgcat gctgctgatg gccacgttcg 300
ctgtcatcca acgagcgagc taccttcaact atgggtccat cgatcagatg atcttggggtt 360
ttgttttgat gg 372

<210> 30879
<211> 392
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-045-Q1-K1-D1

<400> 30879

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 ggaagacaag gacagtcatt gagtggttgc accgggttttg cagggactgc atagataaat 180
 cgatgcgggt tggaaataac gaatgcccag cgtgccgcac tcattgtgct agtagacgtt 240
 ccttgaggga tgatcctaac tacgatgctt tgattctagc tntatatcca gatattgata 300
 agtatgagga agaggaactt gcattcagtc gagggcatga acggcaagga gctggacggg 360
 cgcaacatca ccgtcaacga ggcccagtc cg 392

<210> 30880
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-D10

<400> 30880
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 ctaaagcaat ggaagtggaa gctaaaaagg tcagacggga ggttgcattc atggagaaag 120
 aagttgcagc aatgcgtgcc agtaaaagaac aagaaatcag agccaagcgg cttggtacga 180
 aaggctctgg tagttcacia ctgcttctctg gaagaaacgc accacgaagt ggggtccatgc 240
 gcaacttaca atgatggcag cactaacacc aagcagcatt cttggatagg tcctctgttc 300
 caccatttgt tctgttccta tcctattaat ttcgtggcta aaatcgtagc acagtgagat 360
 gaccaacaaa tacctagatc tgggtaagag taggctcgga tctgatgaga ccattgtggg 420
 agtg 424

<210> 30881
 <211> 442
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-045-Q1-K1-D11

<400> 30881
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 gagtcagata agaaccccaa cagtttttaa ttgcgcgcca atctgtttta tatatacgga 120
 gagagcactc ctgtttttac tagctgcaaa agggcgtggt tgagactagc ggaccgaccg 180

gcctgcgcgg cgatggatgt caagtgccgg cgtctggagg ggaaggtggc catcgtgacg 240
 gcgtccacga tggggatcgg cctcgccatc gccgagcgcc tcggtctgga gggcgccgcc 300
 gtcgtcatct cctcccgcaa gcagaagaac gtgaacgagg cgggtggaggg gctcagggcc 360
 aagggatatca ccgcggttgg tgccgtctgc cactcttcg acgcacagca gcgcaagagc 420
 ctcatcgaga cggncgtcaa ga 442

<210> 30882
 <211> 304
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-D2

<400> 30882
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 gaggcgcgcg tgaggaagct ccaactgctg cggtcactga tgtcactgca actgatcgag 120
 gagcaccgt cagactctgc agtgcacgtc acaccagag ctgtgcgagc gcaacatgag 180
 cgagttcatg gtggagctga tacttctcga catggctcct gccgatgcat agactagacg 240
 aagtgcgcta caacgcatct acaatgtacg agcggcatat gctggtcgtc tgcataaaac 300
 acac 304

<210> 30883
 <211> 121
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-D3

<400> 30883
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 aagaccaggg aggcatacaa aaggaagctg gaactgaaat gcacagagat gtaaccgcag 120
 c 121

<210> 30884
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-D4

<400> 30884

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aggaggatc taaaagaagc attcagaaaa tttggagctg tccggtatgt ggacttcagc 120
atcggagata attcacgata ccttcgcttt gaagattcta aggcagctga aaaagcccgc 180
atgtctgcag tacttgctga tgggtggcttg ataattaagg accacattgt tactttggag 240
cctgtgactg gtgaagctga gaaggattat tgggacacaa tccgcagtat tcaaggaaag 300
tacaaggata gttgaagcta caagggaagg gcttcaaata accagagagg aggaaagcgt 360
ttcaacgcga aacgagatag aaaccagac tcggagaaga attctaaca g 411

<210> 30885

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-D5

<400> 30885

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tgcgcgctgcg gcgagtcgtc gtgcccggaa tgggccgtcg tggagctgca gggcggtggtg 120
cagccgcagg cctccttcgc cggcgacatc cggggactcc acatctgccg cctctgctcc 180
tgctcttcca cagcctacgc ctcgtccaag gcagggttca ccttcacggt ggggtaccac 240
gagctcgccg gcacatacgt gacgtcaag aagcctctgc tgggtgctcat gaagaagatg 300
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<210> 30886

<211> 315

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-045-Q1-K1-D6

<400> 30886

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tgcgctcctc gcgggtcaaa cgggtcaaate gcagatccac aggaaacccc aagcggcggc 120
 cgctcctgct gcgggtctgc ctccctctgc tctccgattc gagcggattc catggccaga 180
 gatgacgacg gcgcgcccgc gcccggcgtt ccggggccagg tgtacctgcc cgcgtggcgc 240
 cgcgcgtagc accgactcgt gaagatgctg caccaggcgt acgcgcatgc cgaggagctc 300
 tncgtcgagc gcgag 315

<210> 30887
 <211> 440
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-045-Q1-K1-D7

<400> 30887

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 gacgacctcg gagggccgcca tcacctgcgg gcagggtgagc tccgccatcg cgccctgcct 180
 ctctacgcc cgcggcacgg ggtccgcccc ctccgcgtcc tgctgtagcg gcgtcaggaa 240
 cctcaagagc gccgacagca ccgtcgtcga caggcgcgcc gactgcaact gcctcaagaa 300
 cgccgncagg ggcgtcagcg gcctcaacgc cggcaacgcc gncagcatcc cctccaagtg 360
 cggcgtcagc atnctctaca ccatcagcac ctccaccgac tgcttcaggg tgaactaaaa 420
 cctagaccac gcgcgacgac 440

<210> 30888
 <211> 440
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-C12

<400> 30888

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 gaattctatg acaaggggtg tgccctcgt aaaaaccttg atgtgatgaa agccgctatt 180
 gacagcatgg tcaatggcac ctcaatggat gatgatgata tcgagaagac cgatgcatct 240

cccaagaaaa gcaagaaaaa gaagaccaa accaaggctg atggtgatgc aatggacgtg 300
 gataaacctt gcaacgttgc tgggtggagaa gctgagcctg gaactgagaa gaagaagaag 360
 aaaaagaagc ataagctgga ggaggaagca caggatgaga acggtgcatc agatactacc 420
 cctaaagaaa agaaaaagaa 440

<210> 30889
 <211> 382
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-A5

<400> 30889

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 gttcctgacc ggcgagaggc tcaagtcccc cggcgaggag tgcaacaagg tgttcgtcgg 120
 catcagccag ggcaagctcg tggaccccat gctcgagtgc ctcaaggagt gggacggcaa 180
 gccgctgccc atcaacgtca agtaaagaac gccaaaggaga agaggaagga ggggaggaaa 240
 tacgtggaaa aaaaaataaa taaaacctgt acacgtgtat gtccagatcg cgtgccgtcg 300
 atcgttcttc gttgttgatt tttggttgta ttgatcgatc cgtatgtgtg cgtgcgtgtg 360
 tggcgttgct ctttcttctt tt 382

<210> 30890
 <211> 311
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-A6

<400> 30890

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 gcaagcttgg agcgtgttcc ttaccagcga gaggtcgaag tccaacggcg aggagtgcaa 120
 caaggtgttc gtcggcatca gccagggcaa gctcgtggac cccatgctcg agtgctctaa 180
 ggagtgggac ggcaagccgc tgcccatcaa cgtcaagtaa agaacgcaa ggagaagagg 240
 agggagggga ggaaatacgt ggaaaaaaaa ataaataaaa cctgtacacg tgtatgtcca 300
 gatcgcgtgc c 311

<210> 30891
 <211> 261
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-045-Q1-K1-A8

 <400> 30891

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 tatgagattg taacctctat ggtactatgt gccatttggt ttaaagctcg tatgcctttg 180
 acttgtcttg catcgggtctc tatcgtgata cataaacatt cggaacttgt atgcattgta 240
 aacgaaatgc tggttatgcc c 261

<210> 30892
 <211> 334
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-045-Q1-K1-A9

 <400> 30892

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 aaactagagc atttttcagt atgcagcaat aattcgacat ggtcccattc gggtcgtgtc 120
 ggggccctct cgtatatcgt atcagcagcg tggcctgtgt aattggatat acgtcatctg 180
 tacgagcgcc atggcccttg aggagctggt gctttgtgtt gttattagtc gtccgttgca 240
 gattttaaag acatcgggtt cagggttggc gccctggcc ctggttggtc ggaaaacagg 300
 cgctctttca aatgagtta tttctttgta ccgt 334

<210> 30893
 <211> 360
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-045-Q1-K1-B1

 <400> 30893

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aatcttcttg gagtaaacct attttctctc tgggggatca ggaacctact tggaacaacc 120
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 gcagagggag agggaggagt tttgggggtg gtggtggatc atcatggaat gaaggcaaca 240
 gaaacggtga atcaggtggg ggaaggtctg gggaaccatg gaacagaagg gatttgatgg 300
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<210> 30894
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-B10

<400> 30894

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 taggtcatgc ttttaatttg tggtttcgct ttgtgaaacg agaatgcaac acgtaataaa 180
 cgaaaaacac cggttggtt tacaatgaaa aaaaaataaa aaaaagaaat aaaaaaata 240
 aaaaagaaat agataaaaaa agaagagaat aaaatggaaa tgagaaacaa ggagaatggg 300
 caacggtctt taacgactaa atgattgagc ttgcggtgct attctttatc gacgtataga 360
 cgaggttcat gtaaaatgta ttgaccgtgc ttgaatatcg atttgtaaat g 411

<210> 30895
 <211> 331
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-B11

<400> 30895

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 caagagcgag ggcaataaccg gcggttctg caagctcggg gcttgcatgt gcaccaaaga 180
 gtgtgtccga agtactgacg ctgctggtgc taataaagcc ccacagcagc atttgagttg 240
 atgagtagta aagaagaacg cttttgttat gccagcgcaa gctctagaat tcgaggccga 300

gatgaccaaa aataaatgat tttgttactc t

331

<210> 30896
<211> 364
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-045-Q1-K1-B3

<400> 30896

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tcactaacac cgagctagca gctcgtctcg tcttgcaaca atggccgctc gtccttcctc 120
ccagcagctg gtcgcggcgg cggtcctggc agcggcgtcg ctgctgctgg cggcgggggc 180
cgggacggcg tcggcggcgg tgagctgcgg cgaggtgacg tcgtcgggtg gccgtgcct 240
cgggtacgcg atgggcagcg cggcgtcgcc ctccgcggcg tgctgcagcg gggcgcgtc 300
gctcaacagc cgcgcgtcgt cngcggcgga ccggcaggcc acctgcaact gcctcaagag 360
catg 364

<210> 30897
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-B4

<400> 30897

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ccgatctgtc tggaccggtt tctgggaatg aagcgctct agttctgaag aacaaagccc 180
cgcgctggca cgagcagctg cagtgcgtgg gcctcaactt ccgggggagc gtcaccgtcg 240
cgtctgtgaa gaacttccag ctgcgtcgct ctgttgacct ttccctaaac gtccacgcag 300
cggagcagga gaaggtgatc ctccagttcg ggaagatcgg gaaggatata ttcaccatgg 360
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<210> 30898

<211> 328
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-045-Q1-K1-B5

 <400> 30898

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 actagcggcc aggcaaagcc gagccgcaac cgccaagatc ttgcgtggcc tccttttccc 120
 agctcgtcac tgtgccgctc gtgtccttca ctcccgggtcc gcccaaccaa taatccatcg 180
 atccatccac caccaccacc ccgctgcggc gatgtgcggc ggcgcatcc tctcgggttt 240
 catcccgccg tccgggggtgg cggcggcngc ngcggcggcg gccagaaga agcagcagca 300
 gcggtgccgt gtgactgcng acctgcta 328

<210> 30899
 <211> 256
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-045-Q1-K1-B6

 <400> 30899

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 ctggctcgat cacgggaggg gctagttgcc aggcgagagg ccagtccgca aacgataaga 120
 tccgacgtgg cctactgccg acatctcggg actgtgccgt gcgagtgcac cactcctggt 180
 ccggccaacc aatgctccat ccattgatga gccaccacca cgccggtgcg gcaacgtgcg 240
 gcggcgccat actgtc 256

<210> 30900
 <211> 448
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-045-Q1-K1-B7

 <400> 30900

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ggtggttaca ttgtttactc aacgtgttcg ataatgattc cagagaacga ggcagtaatt 180
gactatgcac ttaaaaagag aaatgtaaag cttgtgcctt gcggggttga ttttgggcgt 240
ccaggattca tccggtaccg ggagcatcgg tttcatactt ctttagaaaa aacaagaaga 300
ttttatcctc atgtcaataa catggatgga tttttttag ctaagctgaa aaagttgagc 360
aatacaatcc ccgtgacgtc tgagccgtct aaagcatctg aagaagcagc taaggttgat 420
ggcgaagatg agaaagctat ttctaatag 448

<210> 30901
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-B8

<400> 30901

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caggaaggca gattgttctg gcgaagagac ggcgtggaag gccgtgatgg agaggagctt 180
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cgccgtcgtc agccccaccc acgttgctgt cgccaacgcc ggcgacttcc gggccgtcct 360
attccgcgcc ggcgttcccg ttccgtgtc cgtcgaccac aagcc 405

<210> 30902
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-B9

<400> 30902

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tggtaggcgt ttctgtggtg gtagtgcta tccttattca tgaaggagaa cctagaagct 180
agaagccttg aaaataaatt aaaccctcga gatgactaac aaattgccat ttaacggatt 240

tttttggtat agctgaacag gcggtgtttc agctggaaat ggaaacaggg ggaatgggca 300
 gcggcctgta acgactttct gattgagctt gcggcgctct tctttctcga cgtatagacg 360
 gagttctgtg agcagtatgg aacctgcttg ggtcttgatt tgtaaattggg acgggtagaa 420
 agcttagtca aataactatt 440

<210> 30903
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-C1

<400> 30903

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 agatggaacc catgttccag tatcaatgtc acccgatcaa gccgcaccat tcaggaatag 180
 gttgggagta gttgtacttg gttccctgca gctgacagga aatattgggtc atatggagac 240
 agttctgcac agcgttctga gtgccgatat gagctatata tatgttgcac ttctccatgt 300
 ttgggctcag catgtaatat aactgaaaga aggttggttg gagacttgta tgacatgctt 360
 aaatttctgg ataaaatcta gcatataata agtctattac atgcttaaata ttctagag 418

<210> 30904
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-C10

<400> 30904

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 caaggagctc gagaacggcg tcctgtggga ggtcgagga aagtgggtca cccaagggtcc 180
 tgttgatgtg gacattggtg ccaatccatc cgccgagggg ggtgaggacg aaagcggttg 240
 tgacacagct gtgaagggtg ttgatattgt tgacacattc cgtctacagg agcaacctcc 300
 ttttgacaag aatcatttg tgtcttacat caaaaaatac atcaagaatc tctactgctgt 360

gttgagacca gagaaagcgg atgagttcaa aaagggtgtc gaggggtgcaa ccaagtttc 419

<210> 30905
<211> 332
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-C11

<400> 30905

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tatcaaaagt tcagaacgtg gtcatgtaac tgaaaatgta aaagttgtaa gctgatcttt 180
caagtacaaa aatgaatgta aagtcctctt taatttattg ttttactaat cgatccatag 240
tgCGaatact catgtTTTTa tttcagctag cactagtgtt gcaattctgc ctgacttgac 300
atgattaatg aaaaatgaga catgtatttt tc 332

<210> 30906
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-G7

<400> 30906

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cattatgatt ttgagtttagc aaaaaaaaaag atagcagcaa ccgactagat caaaatttga 120
aaaactcaaa tatagattca cggggataga tatgcaataa gattcatgct atgttctggt 180
agttgaatgg ttgaacatgc atgtatcttt cttgaattct gtctgcagca acatttgctg 240
ccgtcgtcct tggatgtgtc gcaattgttt tgcttcagac tctaacaac aggaaaagat 300
tcaacagaaa tggaggtaaa ctactgaatg ccagggcat aaccacctac accaaaaggg 360
agctgaagaa gataactaat ggctacagca aacgccttgg acgagggcac tttggcaatg 420
tttacgaggg caccatcgtc g 441

<210> 30907
<211> 267

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 cggggccngc cgagaacgct gnccgaaagc gggagcgacc gcaaccgggg acgggaggag 120
 ccggnccncc aacacacaaa agcgagggcc acaaagcagc cagagcccgg aggcagacgg 180
 caccagacag agcancnagn ncaggaagag ccgcagaaga agggggcgga aaggacaggg 240
 accangagaa gggggggaag aagaaaa 267

<210> 30908
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 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-044-Q1-K1-H11
 <400> 30908
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 aaagagtaaa taaaaaaaaa ggccggggcca aaaaaaaagg gcggccgcgc aaaaagaccc 120
 aagcaaaca acgcgggcag gcaaccacga agcgcgcaaa cagaaacacc aaaaccgaag 180
 acacaggcca cccaaaaaca acgccaacc cggaaaaacc caggaagccc ccaaccaaac 240
 cgccgcgcaa gacaaccaa gggcaccagc ggacgcaaca acacaacagc ccgcacgcac 300
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<210> 30909
 <211> 321
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 30909
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cggtgcgacc tctgcgacac gcccaagggc aagaaggaag acaagccgag gggcttcttc 180
 tactgtttca gcgagtgcta ttagcacgag ccctcccaa ggggaacact ccgataagct 240
 agcaaatact gaacgaacac cggtctctcc cagcttcgat gccctgcgac ttaagccaat 300
 gtcagcccgg caagtcccag g 321

<210> 30910
 <211> 343
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-H2

<400> 30910

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 ctgctcaacc ttggggacag catcaccacg gaccacatct cctactcggg gaagatcccc 180
 gagggcacac ctgcggccaa gtatctgctc gagtatggcg tggagcccaa gaactttagc 240
 tcctatggtg gccgccgcgg gaacaatgag gtggtgatga ggggagcgtt tgccaatatt 300
 aggatcgtga ataagcttct tgatggcaag gctggtccct gga 343

<210> 30911
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-H4

<400> 30911

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 gacttcaact ggtacgaggc tcttaciaaac tcacctgatg accaagcagc agcataaaga 120
 gccaggcact tgcacattgc ctggccagta gatccattga taaacggaca ctatccacag 180
 ataatgcaag atctcgcgaa ggagaggctg cccaggttca ctctgagca ggctaaactg 240
 gtgaagggct cggcagacta catctgtatc aacgagtaca catccagcta catgaagggg 300
 cagaagctgg tacagctggc ccccagtagc tactgtgccg gatggcagggt tcaatatggt 360
 cgtgcacgca atggc 375

<210> 30912
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-H5

<400> 30912

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 ctcgattccc aagggtacaat cgtaattatg ttcaaacaat ttttaagtcg tcctgcgctc 120
 cttctattac gagcaacggt ttatattctg tgcttgcata ataaatcgaa gaaatcctga 180
 caccaatcga actgaagatc ctgaaacgca cgtaataacc gttgacgtcc gtttcaccca 240
 gctcgatttt cagtcttgta ataataattg agaactccaa tgaactgaga gttactaatc 300
 gtcctatgag tctgaagcgt gcaaaaattt aggtcgcagc tacacaaatt tacacgctgt 360
 tctatattct atattctata ttatatttag gtcgcaacta cccgtgaatc tcctattttg 420
 aaaggtcact 430

<210> 30913
 <211> 455
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-044-Q1-K1-H6

<400> 30913

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 gtcgagctca agattctctc tgaaaaatgg cggcttctcc tcgctggcgt catttttcag 180
 tgcattcatg gtttgccgcg tcatggggtt cattatttgc accggccggg gccaccctt 240
 caagatcttg gtttcatgat tcttccggag cttgggaaag aaaggggtta catcagtgag 300
 acattgttta cgttcatctt cctcgccctt gtgttggtga catttcatcc tttcatcctt 360
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<210>      30914
<211>      317
<212>      DNA
<213>      Zea mays

<223>      Clone ID: LIB3067-044-Q1-K1-H7

<400>      30914

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tgacgcataa gcagaggagc tgatgccgca tcaaaacgct ttattaccag ataagtcgac  120
tgtgcttgac cgagcaatga tcgagcataa tctccttagt gccagtaaac tttacacaca  180
tatcagctta gatgagcttg ggacattact ggggattgat ccaagagctg ctgagatgat  240
agcagtctcg agatgagtga atggtgatcg aatgctgagc tcaataaatc aggatgagggc  300
tgagatacat tttgatg                                     317

<210>      30915
<211>      450
<212>      DNA
<213>      Zea mays

<223>      Clone ID: LIB3067-044-Q1-K1-H8

<400>      30915

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tgcttcaaga agtttgctga gacagccgag aagtgtgttt ctgatcagag tattgaccgc  120
ccttcgatgg gcgatgtgct ctggaacttg gagtttgccc ttcagatgca ggagagcgcg  180
gaagagagcg gaagcctcgg ttgtgggatg tcggacgagg gcactcccct tgtgatggtc  240
gggaagaagg atccaaatga cccgtcgatc gaatcgagca ccaccaccac aaccaccact  300
tctttgagca tgggcgatca gagcgtcgcg agtatggact cggatgggct gacgcctagc  360
gccgtcttct cacagatcat gaaccccaag ggcggtgagg taaaactggt cccattcggt  420
accttgcatc cattcagcat gtttttttca                                     450

<210>      30916
<211>      338
<212>      DNA
<213>      Zea mays

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<223> Clone ID: LIB3067-044-Q1-K1-H9

<400> 30916

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ggggcattgg aaatggtgtc tatgaaggcg gaggtgacat gtgtgcgcg catgcttcgc 120
ggggacgatg cctatgagat gcggggtgaag cttatcaagc aagtgccgga ggaatacccc 180
tacatggatg atgactagtt ctatttttagt gcaagattgc ttgtttggat tttgacatcg 240
ttttcgtcga tggccgtag ttctgctata acctgatatc atacgaggaa agctgcgtct 300
gttttgcttg tgtattgtag aaatcataca taatcttt 338

<210> 30917

<211> 389

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-045-Q1-K1-A1

<400> 30917

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gaggtggagt cctcggacac cattgacaat gtgaaggcca agatccagga caaggagggc 120
atccccccg accagcagcg gctcatcttc gccggcaagc agctcgagga cggtcgcacc 180
ctcgccgact acaacattca gaaggagtcc acctccacc tgggtgctccg cctccgcggt 240
ggcgccaaga agcgtaagaa gaagacgtac accaagccca agaagatcaa gcacaagcac 300
aagaagggtga agctctccgt gctgcagttc tataagggtg acgacgccac aggcaagggtg 360
acccgncttc gcaaggagtg ccccaacac 389

<210> 30918

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-A11

<400> 30918

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gctatctgcg tcggcgacac cagtgtcggg cttggtgcgg aggggacgaa cgaggacgag 120

gatgcgtgcc ctctgccatc agacttggtg tggcgggagc cattttttga tcagatgac 180
 acgaacagat acagaccagg gcatctgtgc tcacgtcgat ctgatgcgct ttgatgatgg 240
 gatcgcgac gtctcgctcg agtcagcctg tgtgatgcgc ttcagtcgag cagaaccagg 300
 ctctgactca ccgaagcaag ggggcagtgc cagtgaatct actgcagagg tccccgttct 360
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 gatt 424

<210> 30919
 <211> 413
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-045-Q1-K1-A12
 <400> 30919

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 gaccagctcc agatcctctt cttcggaaag aagtacggtt ccggcgggtgc ttaaatggag 120
 aaatatgatg acgaacaaga gcagtgtgtg ttcccggctc ttccaatca ggatctggtg 180
 aagtttttgc ctttcatatc gaagaaatta ataattcatg tagagggagg attcttacia 240
 caatttggtt tggatggaga cttagatctc caaacactcg taactatcct actaggtggt 300
 gacatcagtc cccaaaaacg tctatggtca tagagtctgc ccttcgtttg tcagtcgggc 360
 aatttttctt gcatacaatg ccttcgttta agtatcggat gagttgctgc gac 413

<210> 30920
 <211> 285
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-045-Q1-K1-A3
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 acagggggag tgtaaaacac aaacaggcca gacaaagcaa aggccacgac ccatacacaag 120
 gaccccatcc aaccgcacc agcagccgcc catctacccc ggcaagcagc tcgaggacag 180
 tcacaccctc gccgactaca acacacagaa ggagcccacc caacacctgc tgcaccgact 240

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285

<210> 30921
<211> 315
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 30921

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accttcctca acctcttcgc cgtccttctc gcgctcggcg ccgagcgccg ccgcagcacc 180
gggaaggtga tgccggacga gtacgacgag cggctctact gcctctacga cactgacgcc 240
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gccgccacgt ggtgc 315

<210> 30922
<211> 299
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-E8

<400> 30922

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ttttccactg tgaatagggt agtctactac ttttaacaat ttggttcatt ctttttccac 180
cacagataca cctgtaccta gaatgcttta atagatcctc atacgaaatg gacattgtac 240
atttctttta acaagtcagt ctcttgctca ttataatctg gaaccatttg caattaaaa 299

<210> 30923
<211> 242
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-E9

<400> 30923

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agagggtaaa aaaaaaaaaa aggccgggca aaaaaaaaaa aaaaaaaaaa aggaaaaaaa 120

aaacaaagga gggccgcaca gaaataacaa acagagaaaa aagggccaat aagacagacg 180

agagacagcg gagagggcac cgatagagat gaaaagccgg cgcattgtaga agaaaggggg 240

ca 242

<210> 30924

<211> 168

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-F1

<400> 30924

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aaaagaaaaa aaagagaaag gataaaataa aaagagggcc aggcaaaaga agcacaagca 120

aaccaaagag ggcaaccac acaaaagtgc cttgacggag ggacccaa 168

<210> 30925

<211> 186

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-044-Q1-K1-F12

<400> 30925

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aaccaagcca caaggcgggg ccaccgtcaa ggagggcaca ggacaacaga ccaagcgccg 120

acaagaacc acgccgggag ccacacccca caagagagac cnggaccag cgaacggggc 180

gcagca 186

<210> 30926

<211> 272

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-F2

<400> 30926

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agagcatgaa catgccgtac gctaagtcca ggtactgccg tgggtgtccct gaccccaaga 120

tcaggatcta cgatgtcggg atgaagagga aggggtgttcg cgagttcccc gacggcgtgc 180

acctcgtctg ctgggagaag gagaaagacc ccagcgagggc gctcgaggct gcccgcatcg 240

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<210> 30927

<211> 427

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-044-Q1-K1-F3

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ttaggctatc tccagcaaga taaaggccac gaatcccggg tgtggtgctg gcgtggaggc 120

agcaggcaag aagaagcagc agatctaccg atggaccgcg agtgaccgtg actgcgagct 180

catggggctc atgtggctgc tgcagcgcaa tgccacacgg tacggagcgg cggccacggc 240

cgtgatccgg gccctaattg ccgtggacga ggcgttcacc gcaggggtcg cgggtggcggc 300

agatacgggg gcagccgtgg cgtgctcgtt gcccggtggac gacgacatgc ccctnccggc 360

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gctgctc 427

<210> 30928

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-F4

<400> 30928

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tcctcaccac cttcgggtgct ttcgcatatg gcatgtacca ggtcggccag gggaacaagg 180
 tccgccgggc gctcaaagaa gagaaaattg ctgctcgag tgctatactg ccgatgctcc 240
 aagcagaaga ggatgaaaga tttgtcaaag agtggaagaa gtgtcttgag gaggaagcga 300
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 ggattcccc g 371

<210> 30929
 <211> 364
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-F5

<400> 30929

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 ggtggcctgc acgctgcacc acctcacgct cgaggccgctc gaggccggat ggaagaagct 180
 ctactaggcc aaggtctggg tcaatgccat ggctcgactt caaggagctc caggaattta 240
 gccacaaggg ggacgccacc gtcttcacca acgccgacct ttgcgccaag gaaggtggac 300
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<210> 30930
 <211> 412
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-F6

<400> 30930

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 tcgtctgcag aggcagcacc atgcactctt ccattaagtg taacatttaa tgattcttca 120
 cctctacggg caattcgatc tgcatcatgg aaaccatttt gattgttggc tgcaactcca 180
 tttgctattc tagccccgaga aggcagccct tgttcacttt catcatcggt gttatgcttg 240
 gagacaatcc cagctccagt gttgctttcc ccaacatttg caataccga ttttgttggt 300

cggtctcttg acttaactag gtcaggatcc tcggagccat gttttcgctg aacacccaaa 360
attggctcca gaaaagttgt ccatattctc atcactttat ctaattgatc tg 412

<210> 30931
<211> 391
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-044-Q1-K1-F9

<400> 30931

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agcagacgaa gcgagccagg atccttagna atacgggggt acgcgtatgt caccagcatg 120
ctcttagcac aaataatgtc cagatggctg cagagctggt agcagtagca gaccagaatg 180
ctctatgtat gtttcacgtc ctgatggcag atgtgcgcga gaaagcaacc ctatttatct 240
gagggattac tacgagatca aggaaaatga ggtcgcgttc taaaagagc ggacgggggtg 300
cagacagaac gcgatcgcca agatcgtcga ggacaagcac aaggacaagc tcccgctcaa 360
ctttcgcaag ctctgcttt gccagctcaa g 391

<210> 30932
<211> 305
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-G1

<400> 30932

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ccaagacctg atcagttact tcatgtctga ccctgtccac ggtgccatcg aagtctgcgc 120
tcagctgagg ccactgttg acatctcagt gaccgctgat gcagatttcg tgcgccaga 180
gcttcgacag tcttcataag cttgtatgga tccgcagtgt gactgcaatg gctagcttgt 240
aagaacttaa tatgcctggg ctcttgaact ctcagattgt gcctgtatag ctcatgtttg 300
aggac 305

<210> 30933
<211> 209

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-044-Q1-K1-G10

 <400> 30933

 aaagaacaac gcagggagcc acaccccaaa anagaaagcn ggaccaagcg aagggggcgc 60
 agccggacgc aagcgaccgn acaacggaca accagcgca naggcacaan ccccgagcc 120
 ggacaagcaa acggcgagca cnggaggccg agagcgagca cgagaggacg gcccgagcgc 180
 aagagcagaa aaggcaaaca cacacaggc 209

<210> 30934
 <211> 402
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-044-Q1-K1-G11

 <400> 30934

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 aatgactaac cagttaaact atttgtcacc agctattatc accaaaaatc atgcaggtaa 120
 tatcaagaat ataaaaactc ggccggtggg gaaagaccgc cccacggtat ttcactaaga 180
 agagctcaat cagagcatga gctggccccc tcatacatag ggatgtctcc cctatggttc 240
 gggccttgac ccatgctttg aggcccaacc cacatgacca gcctcttaca cgagggctcg 300
 ttcacccatg ccgactaaga gaaccagcga gtgacgtttt ttttaccaca gtctgaaatt 360
 tgatctcaca gggagtcgaa cctaggatct gagtgggtgct ac 402

<210> 30935
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-044-Q1-K1-G3

 <400> 30935

 ctcggttaa cgcgtttcgg gtgcccattg gcctctggcc cctagccctc gccctccctt 60

ttctattgct ccgaagcccg agttgcgagc tgtctctctcc actcttctcc ttcactgtcg 120
cagccgcccc ttgtagaagc ttcgaggctg ctgctgctgc gcccatggcc gcggaaggca 180
agacgccgtc cctcgccgag gagtattcac ttccaccaca ggaagttcca gtggaaaagg 240
cagctgagga gaagccctct agtgggtactg agtctgaagc tgctccctca accaatgatg 300
aaactcctcc atctgtagaa gacaagaatg gaacttctga agtacaagat gctgctgaaa 360
atccagaggc agaagaaact aacactgctg canaggaaac acctgctgta gaggaagcaa 420
gtgagactac cgaggagg 438

<210> 30936
<211> 384
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-044-Q1-K1-G4

<400> 30936
aaaagatctt gcgcttcatt atgtatgttg tagtccgngg agctaccctn gtgacgggtg 60
gngataggtt gggtgacagg ggttgctaca tccatccaac gattttctca gatgtccagg 120
acggcatgaa gattgctcac gaggagatat ttgggcctgt gcagtcgatc ctcaagttca 180
aagacctcaa tgaggttatc aagagggcaa acgcgagcca gtatggattg gccgccggcg 240
tgttcaccaa cagcctggac acggccaaca ccctgacgcg cgcgctcagg gccgggaccg 300
tctgggtgac ctgcttcgac gtcttcgatg ctgcgattcc agttggcggg tacaagatga 360
gcggcatggg gagggagaag ggcc 384

<210> 30937
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-E6

<400> 30937
cgtctcgct ccacttccc cgtctagtcc tctcctcgcg tgcctctcgc ctccggcgcc 60
ccaggccgtg cttgcctgcc gcgccaccg ccggtccgcy ctgcgccta cacggagcat 120
caggagtcca ggcgcggcga acagggggga gaagcagcca acctcgctcg ctactcgcta 180

gcctagtcgg cggttgccat ggggatcggc tacgtagtgg gcgttctcgg tggcgccatc 240
 ctgccccacg ccgcctacgc caccatccag taccggggcg tgctcaagat cacggaggaa 300
 gagttctcgc ggccgccccat ggatgtgatg atggagttgc tcctaggggtt ggctttgtgc 360
 atgtgggcag gtc 373

<210> 30938
 <211> 345
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-G5

<400> 30938

gatcgttcat aagtgtgcag attattatctt ggtgggcccc tatggcctaa tctgacacca 60
 atgcataatcgc tcctgagctg tacaacacaga aactacaggc caataatagc ttaattttta 120
 gagtacaaaa atctgttatt tgctgatag tttatctgga gcagtttcat tttacatatg 180
 actgtaattt gtgagaatgt acatcttacg atttttgttg accagtattc atagggtttt 240
 agtttagcaat gtgttggttg cccgttgcta gtccttgtaa tacaagcccc cctgtttatt 300
 tttgcgcgatg gcaagactta acctggaaaa aataaatata aaatt 345

<210> 30939
 <211> 402
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-044-Q1-K1-C8

<400> 30939

gaccactcgc ttcggttcta tcttactatt gaagcggttg attgcaatac caagaagctn 60
 natgaagcta aggtctggta gaagccatgg gagaacttca agcagctgca ggaattcaag 120
 cctgttgaag aggggtgctag cgcctaagga tctgtcgtct ccctgtgcaa tttgtgcct 180
 gaagcgcaaa actaagttac agaataagga gctgcttcgt aacatgccag agcatgcacc 240
 ctgcgcgaat ttcataaaat cacagggtc ttaatgtaat atcttgaatt gccgtgccat 300
 gtgtaataag taatatcatg aataacagtt gctattatgg gttctaaagg tttattaaca 360

gccatccatg ggccatggca gaattctcat attaacttgt tg

402

<210> 30940
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-C9

<400> 30940

accacgcgt acgcggacgc gtagggcggt cgcgtgggcg gatgcgttgg ccaaccagag 60
caaaagccaa acggaagcgg cacgcgtaac aggaccaaca aaggaggag ccaccagagc 120
gagaacagca tcaccgactg caagagcggg ggcaataccg gcgggtactg caagctcggg 180
gctagcatgt gcaccaaaga gtgtgaccga agtactgacg ctgctggtgc taataaagcc 240
ccacagcagc atttgagttg atgagtagta aagaagaacg cttttgttat gccagcgcaa 300
gctctagaat tcgaggccga gatgaccaa aataaatgat tttgttactc t 351

<210> 30941
<211> 116
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-044-Q1-K1-D1

<400> 30941

accacgcgtc cgcgaggaaa atggactact acatgnacca taggattaca cgccaaggc 60
tcaggcagcc ggggcgggtg aatcaaact ggccacggac atgctcaaga agaacc 116

<210> 30942
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-D10

<400> 30942

ggttcacttc tccagttaaa gtgttcgtat tcattgcgcc gccgcagcca aagtcgggccc 60
tcttcgttgg catcaacaag ggtcatgtcg tcaccaagcg cgagctgcct cctcgcccgt 120
gccaccgcaa ggggaaatca acgaagaggg tgtctatggt caggggcctg atcagagagg 180

ttgctggggtt tgctccttat gagaagcgta tctactgagct tctgaagggtt ggcaaggaca 240
 agcgtgccct gaagcttgct aagagaaagc ttggaactca caagagggca aagaagaaga 300
 gagaggagat ggccggcgctc ctcaggaaga tgaggtcggc tggtagcgac actgacaaga 360
 agaaatagag agcatttcaa ggtcatggaa cctgccaag attatgttcc ag 412

<210> 30943
 <211> 300
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-D11

<400> 30943

gctgcagatg cctgttttagc tgctcatttg ggttcagctc tcgcatgttg agtatgcggt 60
 aatgactact atcagtactg cgaaggataa tcccataagc gatgcggcta ttcgcatcct 120
 atgaagggtgt tactggaaat gcttacgatg cataaatgca tgggccgcac atgatggagg 180
 cataatacct atggtatgac ttgactggag tggtcgtctc cagaagcaga cctgggtctgg 240
 caaggacgat ccctgagctg gacaaaaaca tgtatggaga catcgtcgat gtgtgtgact 300

<210> 30944
 <211> 186
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-D12

<400> 30944

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 ccggaaggcc ggaagattgt acacgcggcc tgatctggaa atggtactct ccatcgggta 120
 ggggtggcggg cataacagac tcatataacc agcttgctca acttaatctg tctgtcctgt 180
 atcaga 186

<210> 30945
 <211> 266
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-D2

<400> 30945

cggtacacat ttgctgtatc gtgtagatct gattgcaggc caagcaacaa agtgacgtca 60

ggacacgccca tctggggaaa cataaactga tgcgacgcga tggcctgtaa tgtgttggtg 120

ggatctagac tagatgagat ttatttaatg taggtgcttc gttgatcatg tattatgtta 180

tgtaatagac gctttgctgt atcgagatgc aggcttgag cttggcaacc tggccgaatt 240

tgggcagttt ctttcatgct tctttt 266

<210> 30946

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-D3

<400> 30946

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agctgctgcc atggaggcgt gtagatctct cctcgcgagc gtcgtgctcg ccgtgctggc 120

cgcgcaggcc ttggtggccg tggctgagtc caggaccggc cccgtggagc acgcgagcca 180

aggtgacgac gtgaagaagc cggactgcgt gccggggata gaccgcgct cgttcccggg 240

caccggcggc ggccacggca tcacgcccggt gacgccatcg cacggaggct ccagcttctc 300

gacgccgtcc cacggcg 317

<210> 30947

<211> 389

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-044-Q1-K1-D4

<400> 30947

cctacgcgtc cggactggac tagactttta catgctgaca cggccgagaa gcagcttgca 60

ttgcatgcgt agtacgtacc cagcagcagc tagcactagc agtccatcgg agcgacgatg 120

gtgagaagga cgggtgctggc ggcgctgctg gtggccgccc cctcgcgagg cggcgcgagg 180

gcgcagctca aggaggggtt ctacgactac tgctgcccac aggcggagaa gatcgtcaag 240

gactacgtga aggcgcacat actccacgcg cccgacgtcg cctncaccct gctccgcacc 300
 cacttccacg actgcttcgt caggggctgc gacgcgtcag tgctgctcaa cgcgactggc 360
 ggcagcgagg ctgaaaaaga cgcggcgcc 389

<210> 30948
 <211> 330
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-D5

<400> 30948

cttaaccctc gttcctctag ccttctctgt cagccacagc ctccatttct cctccgcagg 60
 cgggtgctgt agctcaacca tggcggactc caaggccacc tcggcgggtca cctccgcac 120
 tcgcaagttc atgaccaacc gcttctctggc ccgcaaaciaa tttgtgcttg aggttatcca 180
 ccccgccgc gccaacgtct ccaaggcgga gttgaaggag aggcttgcca agatgtacga 240
 ggtgaaagac cctaacacca tcttctctgt caagttctgc acacacttct gtggaggcaa 300
 gtccactggc tccggcctaa tctacgataa 330

<210> 30949
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-D6

<400> 30949

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 atacttggca tccatcacct ggcacacacc atcagacgaa atcacataag tcgcgtgctt 120
 gcattcccag cccatccgaa gcgaagcacg ccaccggcct cgaagggatc agcttctcta 180
 gcactcatca tcgtggcctc gctcctctctc ttctataacg gactgcgtct gagtggagat 240
 acgcgccgac atagaccgac tatagcgctc gctgcctacg attgatggcc tcaccttcac 300
 caaccgagtt cactagggaa gcagctcgtc agcctctcat cgcaatctac cagaccattc 360
 cggagacacc ttgatccgag actgataagg ca 392

<210> 30950

<211> 240
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-D7

<400> 30950

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ctagtcctcc cgtcgtgacc cgtacgcacg atctgcgatt ggccgacgcc cggctcgccc 120
tcgtcaacaa aagcacaccg caagcgagcg aaaccgagca atagtgcac tagaacgcac 180
gggctagctg agcctggatg gacgacctga ataatgaagc aactgcgtga tatgcatgtt 240

<210> 30951
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-D8

<400> 30951

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aatgcaagtt aataatgagg caccactagg gtgcctcaag ccaaataatt ctcagtataa 120
ctctccagag cagataggtg gtggtgaagg gtttcctgag aataatgaaa aaaggaatga 180
tattgttgct gcggaaaaaa tctgggaggc gactccaaac caaggcctta gcaggcccat 240
ctaccgacaa gaattttatg cctggccata tatttattca gattatcaaa tcgtgcgtca 300
gccactacct tatggttttg acaaccaatt ttatcagata aatagggacc acggtttccc 360
tattgagaac agggttcaat atcttccatt caagatgctc cc 402

<210> 30952
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-D9

<400> 30952

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tgttacaaat gaccatttca agactgcgct tggaacaagc aacccatctg ctctccgtga 120

aactgttggt gaagtcccaa atgtctcttg ggaggatatt ggtgggctgg agaattgtcaa 180
gagggagctc caggagactg ttcaatatcc tgtggaacat ccagagaagt tcgagaagtt 240
tggcatgtct ccatccaaag gagttctgtt ttatggctct cctggttgtg gtaaaacctt 300
gttggcgaat gcaattgcca acgagtgcc a ggctaacttc atcagtggtca aaggtcctga 360
attgcttacc atgttggttg gtgagag 387

<210> 30953
<211> 166
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-E1

<400> 30953
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cgcggtcaga attccgagcg gcagcggcgc tcctaattgca cgcggcacag atgtcccga 120
ggccaatggc aagctcacgg ccaggccctt ggagcatgct agccaa 166

<210> 30954
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-E10

<400> 30954
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gtgggacgac gtggtggccg ggcctcgccc ggagacgggc ctcgagaagc tccgcaaggc 120
caccaccgcc cgcccgctcg tcatcaacaa agacgcggac ggcggcagct acaagcgggc 180
gcagtcgacg ccgtcgaccc cgacgacgcc ggtgacgccg tcgtcgtcga cgacgccg 240
cggcgccggc aacgtgtggc gcagcgtctt ccaccgggg agcaacctgg ccaccaaggg 300
catgggcgcc aacctcttcg accggccgca gcccaacttc cccaccgtct acgactggct 360
ctacagcg 368

<210> 30955
<211> 257
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-044-Q1-K1-E11

<400> 30955

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gaggactaac gaggaggccg ggcctcacia aggagacaac acccgagaag caaaaaaag 120

gaaaagaccg cccgcccaca cggcacaaac aaagacacgg acggcggcag caacaagccg 180

acgcacaaga cgccctcaac gccaacgacg cgggcgacgc cgaacaacgc gacgaccgca 240

aacaccaccg cggacgc 257

<210> 30956

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-E12

<400> 30956

cccacgcgtc cgccctcgcg tccggctttg tcttcttgaa gattgttatc aacactgggg 60

tgatgctgag ttacgtgtcg aatctcgctt tctcgaggcc aaggccgtgc tcgacaagac 120

gtcggacacg cccgctgagg ccgagcagcg gctgctcgag atcgaggacg tcgtgatgga 180

cagcagcggc gacagcggcg cgtggaagga ggtggcgacg aaggctggcg tacagcgcgt 240

gttggcaacc cgggtgacgc tgcaagtctt ccagc 275

<210> 30957

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-C6

<400> 30957

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aagcgagcgc gactgagctc aaaggtagcc tgagcaaatc acttaaacag gtgtcagatc 120

ccactctgcc tctgagctgg aaagggcaga aagcattcaa atctgagtct gacgtcaaga 180

atgaattcaa gtcaatggct ctgagctttg ccagtgccaa gaatgccgcc atggagatcc 240

cacctgaaaa ctacctcatt gtcacaaaaa atggaaatgt gtgcctgggc atccttgatg 300
 gaacggctgc caagctgagt ttcaacgtaa ttggagacat cacgatgcac gatcagaagg 360
 tgatctatga caacgagaaa tcccagctgg gaatgggccc gaggggcat 409

<210> 30958
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-E4

<400> 30958

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 caacgtctgg aactcgcacc ccaagaacta cggggccgga tcccgcgtct gccgtgtctg 120
 tgccaaccct catggactga tcaggaagta cgggctgatg tgctgcaggc agtgcttccg 180
 cagcaatgcc aaggacattg gcttcatcaa gtaccgctga aatcaggtgg gaatggacca 240
 tgtggtagag gcgaggttgt agttttattt ccagtaattt agatgttttg ttcaaaagtc 300
 tgctagtaaa gactgctacg tttatgatgg agaacttagc catgttggtc atgttggtca 360
 tattgatcat gagttaccta tgttgagc 388

<210> 30959
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-A9

<400> 30959

ctctgtgttg gtgttttagat ctatagatta ggtatttcta tgggcagtgc atcaggactc 60
 gaatgtagca tagcatcatc ggtttttgtg tttcattaat tctcatttca agatggcatc 120
 tgctggccta aagccagggg tgccgtttat tctacgggag ctggagccat cctcagagat 180
 gttcaagcaa ggagcgtccc ttcgagtcac aggaagtctc cagtcattcg atgtggagtc 240
 cgcgactgcc accattcaag actgcagcgt aagtctgaag gttgacaccc agcatctgag 300
 ggatgtcagt ttccgcacga actcgggtgta ccaattcatt ggtgaacttc agatccgcga 360
 agttgatgat gccattctac tctcgcgcac ctgaaggaac gt 402

<210> 30960
 <211> 223
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-044-Q1-K1-B10

 <400> 30960

 ccacgcgtcc gcgtcgaaga aaaatctttc gttaggtgat gagatgtctg gaggaagaaa 60
 gcaatggaga gcaggctcat tttgttccat gtgcctgcct gcgcatactg cctctctgtg 120
 caaattggcc gtactccatg aatcacactg caattctaaa aacgcttagc gaaacgagaa 180
 tgcaacacgt aataaacgaa aaacaccggt tggctttaca atg 223

<210> 30961
 <211> 207
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-044-Q1-K1-B11

 <400> 30961

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 ggacttaaaa cgaatggact ggaaaaactg tggctttacc cagctgactc accttgcaaa 120
 agatccgcat ctagcgagct tgccaacaag cgaacaggcc ggaacgcata gggatgcgaa 180
 cagtagcgca gcatgaaggg cgaatgg 207

<210> 30962
 <211> 324
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-044-Q1-K1-B12

 <400> 30962

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 caatgtcacc tgatatcatc aaaggaacc agatggcgct ctcggtgttc gagatcctgg 120
 accgtaagac cgacgtccgg atcgacacag gtgaggacat caagaggggtc gaggggctga 180
 tcgagctgcg cggcatcgag ttccggtacc cgtcgaggcc cgacgtgacc gtgttcaagg 240

gacttgacct gctgatgaag gctggcaaga gcatggcgct tgcggcatg agcggctccg 300
gcaagagtac cgtgctgtcg ctca 324

<210> 30963
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-B3

<400> 30963

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ctccgtcacc gtcgccgtc tacgcgagac gccaggtct tcgccaacga cgagcatccg 120
ggttagagag gaagaaattg caaccgaaac aatggcggca gattccggcg ctgcgagaca 180
accaagcttc accaaggtcg accagctgcg ccctggaacc cacggccaca acctcatcct 240
caaggttggt gactccaaga tggctgtcca gagaggccgc gaggaggaggc cccagggaag 300
acagatgagg attgcccagt gcttggttgg tgatgaaacc ggcatcattg tcttcactgc 360
atgaaacgat caagtggatg gaattaggcc tggaacaact gttgaactga ggaacg 416

<210> 30964
<211> 398
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-044-Q1-K1-B5

<400> 30964

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gggaaacact gctggccag gtgatgctgt tctcaatgta tacataaatc atgacaagaa 120
atttgctttt gtggagatga gatctgttga ggaagcaagc aatgcaatgg ccctggatgg 180
cattatgttc gaaggggcac cggatgaagg tagaaggcca acagactaca acccttcct 240
tgcagccgcc ctgggcccac gccagccaag cccaatctg aatcttgctg cagttggcct 300
aacagcagga tctaattggag gactagaagg tccagaccgt atttttgtgg gtggcctncc 360
gtattacttc actgaagcgc aagttcggga gttgcttg 398

<210> 30965
 <211> 376
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-044-Q1-K1-B6

 <400> 30965

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 aacctgctta tctcgtgcgg tacagattaa ataatggcac gaacacagag gttactttac 120
 tgtacggcca cacatgtctc aatcattctg tagcaatata tggaacggaa cgagtgccgt 180
 gctaacacac gtcataataat cgactctgta caacactagg cccgccattg ggtgaccgct 240
 tcttggttct ccaaggtgca gctgtcactt gagagcctac tgatcatgat tgtcgatacc 300
 tgcgaatagt ttgccggaac atggatcaag gttgtctgca tcagtttggg ctgaatggaa 360
 aggataatta aaagga 376

<210> 30966
 <211> 361
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-044-Q1-K1-B7

 <400> 30966

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 gtagcatggc caatgacgac gaccttgatg gctctggtga agcagaagag tggcagatcc 180
 tttagacgag gctaagacat gttgggctga agaaaaaaaa aacttgcatt gaaaatgttg 240
 tctgaatgcc ctcgtctgcy tgtgaataga ggggattatt tgtgtgatct cggggtggaa 300
 atgttcagaa catacactcg tagtcgtgga tgataataat taaatgtatt tattattcca 360
 t 361

<210> 30967
 <211> 232
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-B9

<400> 30967

aaaaaaaaaa aaagataaaa ataaaaattt aggataccaa accaaaaaaaa aaacaaaaaag 60
ggacgggcca acaagcaaca aaagacggcc gaaacaaaaa acagagcgca cgagacgaac 120
aaggacaaaa gaagcaaacc cacagccagg aaaaaggccg acgcgacaga caaaagagga 180
ccagaagacc acaaaccgag acagaccagg gcacccgcgc gaacaccaac ca 232

<210> 30968

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-C1

<400> 30968

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gaagcaaadc aaaagaaagt gatgcaattg gcagcgaaca atgtattgca acgacttctg 120
aagagctggc ttcaatattt tcatcaacta actttgctcc gccatctgag ggaaggaaca 180
gttcactacg agatgatgaa aatgctgagc tggacataga tgatatcgac attgatgaca 240
accacagaa gccaaaaggt ccacatttcc ctgggtctaag taaagataaa atcagcaagg 300
gactccaaac ccttaaagga aagttgaagc ccaagactga agaaatgata agctc 355

<210> 30969

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-C10

<400> 30969

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gccaaaggagc taatgcatga ctacttcatt ggggagttga actcgtaccc aactcctgag 120
attcctgaga tggaggtttt cagataggaa cagcacacac gatttgccag gaagcttatg 180
gacgttggtg tgcaatattg gtcgatccca gccgctgtaa ttgggatatc agctgttggt 240
gccatatagt gtgcgctaac gaagttaaag ctgttggtga tggttcctagc tcgttcagat 300

<210> 30970
<211> 280
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-C11

<400> 30970

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aaaaacaaca agagcagctt taaaagacca aaaggagcca cagcactagg aacaagcaac 120
ccaaccacac tccgagaaac tgatcaagaa gtcccaaagt cctcttgtga cgaaaaaggc 180
ggactaaaaa aagtcaacag ggaactacac gaataaagtg caaaaaaccg cggaacaacc 240
agagaactca gcgaaccatg acacgactac tcacaaagga 280

<210> 30971
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-C12

<400> 30971

accacgcgt accgcccacg cgtccgcca cgcgtccgcg catgacatac caccctccgc 60
ccccgcgcg gcgtgcaggg tggacgacac cacggccggc cgaacgaaca ccgccactgc 120
acgactccac gcaagaccgc aatcgcaaga gacgagcgtt gcgccgcgca aaaaccggga 180
cgtgacgaaa gccgccattg acagcatggc caaaggcacc tcaatggatg atgatgatat 240
cgagaagacc gatgcatctg ccaagaaaag caagaaaaag aagacaaaaa ccaaag 296

<210> 30972
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-C3

<400> 30972

gttatgggtg ctacataccg gccaaacatc atttatcctg ctcttagaag atttgaagg 60

tttgaccggg aaattgacat tggagttcct gatgaagttg gccggcttga ggttctccgt 120
 attcacacta agaacatgaa gctagctgaa gatgttaatt tggaactcat ttcaaaggat 180
 acccatggat acgttggtgc tgatcttgct gctctttgta ctgaggctgc tcttcagtgc 240
 attcgtgaga agatggacat catagatctt gaggatgaga caatagatgc agagatattg 300
 aactcgatgg ctgttacaaa tga 323

<210> 30973
 <211> 372
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-C4

<400> 30973

aactacgaca cccctccct tctccgtcc atcgctccc caaaatccga cgcgtaatcc 60
 cgtcaggccg ccgccggcaa gctcctctc ctggtcgccg ccgtcctggc ggcttccctc 120
 gtcgccgacg cgcgcccgtg cggccacgcg cagacgtcc tcgtctcctt ctctccgtc 180
 ctcaggccga acccggaccc caccaaccg acgcgctca ccaccacagt cgtcaccgtc 240
 ctccgctcc gccgcctcgg cccgcaccag atccgccgcc ccgtggcgct ccccgccgtc 300
 gagtccgagg tcgccgctc gtccgccag gaccgcgcca aggacatcct cgtcgtcgtc 360
 ttcggcctcc tc 372

<210> 30974
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-A8

<400> 30974

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 ctctctctgg gtttgtccgt gctcagggcg atgcagacag ctccttggac aggctgtggc 120
 agaagaagaa ggctgatatc aagcagtaga ttttacatct agtttaccaa gaattggaca 180
 ctgccttagc tatgttttga attcatgtca ctatatgcaa tggttgatt tcagctggta 240
 ccttaaactc gaagatttag tatctttgtt gggttccttc tgagtttgat gtgtgggtgt 300

cgtttaattc ccttgtaaaa ccccathtag tatcattgtg atgattttgg attcaatctt 360
gctcgagtca gggtagcatt ccaataaaaa tataaagagg aagaaa 406

<210> 30975
<211> 405
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-044-Q1-K1-C5

<400> 30975

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tgcgctcaaa ggtggtctca gcaaactcact taaacagggtg tcagatccca ctctgcctct 120
gtgctggaaa gggcagaaag cattcaaatc tgtgtttgac gtcaagaatg aattcaagtc 180
aatgtttctg agctttgcca gtgccaagaa tgccgccatg gagatccac ctgaaaacta 240
cctcattgtc aaaaaaatg gaaatgtgtg cctgggcatt cttgatggaa cggctgccaa 300
gctgagtttc aacgtaattg gagacatcac gatgcangat cagatgggtga tctatgacaa 360
cgaggaatcg caactgggat gggcgctgtg ggcattgcact aggag 405

<210> 30976
<211> 321
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-043-Q1-K1-H1

<400> 30976

gtcagggaga ggcttataat tcttggtgtt ttnttttaac aagggaactg ccttggtaca 60
actctgctac taggctggag cctggaggga gggacgatga tccatcagat gggctatgtt 120
actctgtaga tcatcgagat gtttaattagg tctcttggtc agtgcagctc agccaattag 180
catcttcttt cactttttgc ctttttgctg tgttacttag atcattatcg ttcgttaata 240
gcggtgctaa tgagatggca aaaaattnaa ataaagtttt ctaagaaatt aagtaaaaaa 300
aatataaaaa aaatgggcgg c 321

<210> 30977

<211> 421
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-043-Q1-K1-H10

 <400> 30977

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 atggcgccca aggccgagaa gaagcccgcg gcgaagaagc cggcggagga ggagcccgcg. 120
 gccgagaagg cgcccgccgg gaagaagccg aaggcggaga agcgggtccc cgctggcaag 180
 tccgctgcc aaggagggcg cgagggcaag aggggcaaga agaagggcaa gaagagcgtg 240
 gagacctaca agatctacat cttcaaggtg ctgaagcagg tgcacccgga cattggcatc 300
 ttctccaagg ccatgtcgat cttgaactcc ttcattaacg atatcttcga gaagctcgct 360
 gctgaagccg ncaagctcgc gcgctataac aagaagccta ccatcacctt ccgtgagatc 420
 c 421

<210> 30978
 <211> 306
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-043-Q1-K1-H12

 <400> 30978

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 gatgacacgc aaaaaaagag aaatggaccc aacattttct atagtcgatt ttggtaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aatgaaaaaa aataaaaaag aaccaaaaat ttgtactact ttaatacaac ttaaaacaat 240
 ataaatggta ataataaaat taaatttatt ggctttgatt tttataattt aataaattga 300
 taaaac 306

<210> 30979
 <211> 290
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-043-Q1-K1-H3

<400> 30979

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tcttaagtgg ttccgggtgg aggggcagta caatgtcatg gtgattgatc tgcttggtcc 120

aagtctggag gacttattta actactgcag cagaaagttc tcccttaaaa cagtactaat 180

gcttgctgat cagatgatca gtagagtaga atacatgcac acaagggtgtg ttctacatcg 240

cgacatcaag cctgataatt ttctcatggg tttaggacgt aaagcaaacc 290

<210> 30980

<211> 205

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-H4

<400> 30980

gcctttgctt aagggttttc taccttggtt gaacatattt gtggttagaa ctttgtcaga 60

actatgtgca atatgtttga atgcttcaaa cctttgtggt gaaacctttg tatgttgaac 120

ctctgttggt gaagaactag tgtgctggaa ttgtgtaaaa aaaaaaaaaa aaaaattaat 180

aattaattat aaaataataa ataga 205

<210> 30981

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-H5

<400> 30981

caacactctc cccagctcga gttaccattt cgagaaccaa tcaccaagca aaagcccagag 60

aaggatagaa caaacaggag acagatggcg gctgcagcga aggcgtcgtg gatggtggcg 120

atgagcgtcg gggccgtgga ggcgctcaag gaccaggcgg gcctctgccg ctggaactac 180

gcgctgcgct ccgtccaccg cgccgtcaag gccaacgctc ccagcttcgt gcaggccagg 240

aaaaagctgg cgctcgccgt cgcgacaaa gccgtcgtg aggatgtgat gaagaccgtc 300

atgtacctta actgcttggg ccccaactag ctagggcctc tgctagtctc 350

<210> 30982
 <211> 162
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-043-Q1-K1-H7

 <400> 30982

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 tatgtgatta acggcttgac tggacctatg agaatggtaa gtttatttac gtgggggatg 120
 gaaacatgaa cattaatgaa tgtgcaaatt ggttgaggtc ct 162

<210> 30983
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-043-Q1-K1-H9

 <400> 30983

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 gttcgggcat aatcaggaaa gtgaagcagc cagctcaaat gaagaatggg gtatcttggc 120
 gctgaaacga ttgaaagagg cctctccgtt agctttgaag gtctcactgc gatcgatacg 180
 cgagggtaga tatcagacac ttgatgagt ccttgtccgt gagtaccgca tgtccatgaa 240
 tggaatctca aagcaatttt ctcatgaatt ctgagaggga gtcagagcac gactagtcga 300
 caaggacttc actcctaagt gggatcctcc tgcccttgag tatgttacga atgacatggg 360
 tgacgcatac ttgcacctc ttggcgattc ggagcctgag ttgaagctgc ctatagaatc 420
 gcgagaggca tttgtatgat caca 444

<210> 30984
 <211> 220
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-044-Q1-K1-A1

 <400> 30984

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 tccacccttc agtcagtttt aggctcttag ctgtaggctc tatctagccg cgccactcct 120

tcgtgtagcc atcagccttc tcacgcccac caatggccac tgccgaggtc cagaccccga 180
ccgtcgtggc ggccgaggaa ggcgccgtgg tggagacccc 220

<210> 30985
<211> 329
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-044-Q1-K1-A10

<400> 30985

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tctgaatgtt gcttgtcatc atagctgttt ttgcggtggt tgtggtgatg ctagcgatcg 120
cctgcttgtc aaactttacc aagtccagta agaaatgcaa gagcgaatag ctgtgagctg 180
cataggagaa acgaagattc ggtccagcta taagctggat ttcacactga ccagtgatca 240
cctatgtcaa accatgcctc tgagcaggca agagccagat tgcaccacag cattaagcaa 300
tacactgcgt agtgcaatth gcaaagcgc 329

<210> 30986
<211> 265
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-A11

<400> 30986

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tgggatgaaa gcaccggatt gattgatgac tatcagctgg agaaaagcgc tgttcttttt 120
gggccaaagt tgatcagcgc tgggtgcaagt gcatatgctc ggctatatga ttatgaccgt 180
atgcggatgg tatgcctcaa gcagatggca ctacttctag cagacttggc acatactgtg 240
tgggctagct gcagctggcg tagac 265

<210> 30987
<211> 301
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-A12

<400> 30987

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tcccaagtac agcagcagaa ggcaggggga cataaaggag aggttgaaga atgcatacta 120
tgctcttcac aaggagttta ggagcatttt cgaaagcatt gtgacagatc aaacagagat 180
ctctgatgat gagaaaagtc ggtttttacga gatgaaggcc tccgcttggt accaggtaac 240
ctaccatcct gaatgggtcc agaagtcaag ggaaatgttc aagtctgact gtgaggacat 300
g 301

<210> 30988

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-A2

<400> 30988

ctgattccag ggaagttaga ctgaaaggtg gcctagatga tctccaaaag cggcatcaag 60
cccggtatct tggctataat gaactggtta cacaagtgcc tgcgtctacc agaccgttta 120
taagacagat cgaagccctg catgagacaa ctgctcaaac ggcagaggct agggctgatg 180
cggagagaac cttagactgt agcctacacg aagcacaagc tgaagctgct gcttcagaag 240
aaggagcaga ctgtagatca gagagtgtca cagagattat tacggataac agtcctggag 300
accgagattg caactcttag aacagagcat acacagctga accgatctct ggaaaaggag 360
aggc 364

<210> 30989

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-A4

<400> 30989

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ctacacttag tgcctcagtg atgcataaac tacgaccgca gcctgcatgg gatcgtaact 120

gcactgcagc agctgcagct ggccctcctct gggagttgag ctgcgcggcct gagctcattg 180
catttggggtt ggaaaagcaa gccgaggcgg tggagtgtct gttagacaac ttgctggatg 240
ctctcactgc cagacggctt cgtctgggcc gatcgataac tcggaaacag agacatagta 300
ggaactgcat atagggaaag aagaaactca cagtaacaga ggagcatggt gtgccatcaa 360
gtggaaggct gatttcattc ttttttgtag aactcaggag ctgatcattg tcaacaa 417

<210> 30990
<211> 199
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-044-Q1-K1-A5

<400> 30990
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ggggctttgg actctgctat gcgtgtccct gaattggact ctgcgtgttc ggcaggctgc 120
aagccgacac tgttgcagct gttcggactg ctgcagctgc aatccatagg agagaaaaat 180
actggagaag cctcagccg 199

<210> 30991
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-A6

<400> 30991
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gatccagtgg ttgttgctga ggatgggaag gtgaaaacgt tccctgtgat cctattgccc 120
aaggagaagc ttgttgacac caacggcgca ggtgatgctt tcgttgaggg cttcctctca 180
cagttgggtc taggcaaggg cattgaagac tgcgtgaggg caggttgcta tgccgcaaac 240
gttatcatcc agcggccggg ctgtacttac ccggagaagc ctgacttcaa ctagtgcaaa 300
actgaggcac gtcagagag ggactgttat aggcacactt aattgttaac cagtgcgtgg 360
ttcgggtgtct acacaccctg tattcttccg aggcttctct tctgat 406

<210> 30992
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-A7

<400> 30992

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cctaggagtg ggggccgctcg ttctgttgtc atttttcatt ttcaagtatt ggcagaagaa 120
gaaaagggag gaacaacatg cacgtctact aaagctatct gaagaggatg atgacattga 180
ggttgagctt ggtcttagag actgataatc ttcaatgtac agcaagagta tctcggctga 240
ccagggtttg ctggcttgcc ttcagagcat tttcacgtta atgtaaagaa tttgttgtat 300
ttaaacttgg tagaccccca caagaa 326

<210> 30993
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-G9

<400> 30993

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gcattttgat gccatgtttg atccttatgt taaatgtcgg tctccaccaa agatacttgt 120
catcttgaat cctcgatctg gacatggtag atctagcaaa gtttttcatg gaaaagtgga 180
acccatattt aaggatggtc tagctgagta gaagcatgca tcttatctca agattggatc 240
tgtgttgctg ctactactac gaactttggt atgatctatt catgctttcc aatatcatat 300
ttattccggt tgtttcatac aacc 324

<210> 30994
<211> 215
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-A7

<400> 30994

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gggcccaaag gaggccttgg gacctaattt tgatgggggtt tgaaattcct gcccttggtt 120
aattttaggg cccttaataa tttctaattg attattagga ccttgggtaa ccttgacggt 180
ttcctgtttc ttaattggtt ttacacttgt ttgac 215

<210> 30995
<211> 65
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-001-Q1-K1-A9
<400> 30995

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aagaa 65

<210> 30996
<211> 381
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-001-Q1-K1-C4
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gcatcgacga ggaccgacgg agcgatttgc gaagcatggg acgggagagg aacccgagga 120
aggcgaaaat gatctaccgc aactggtcgc tgctctcgtc cacagacgtc attcgtggcg 180
gcgtcaccac cgtcgggtctc gccggatatct tactgttggg cggcaaggag aaattcaatg 240
gttatctgtg ccgagaaggc gagaggctta cgcagcaaga cagagccgct atggaccgac 300
actcaacctt agctactaag gtatctcaag ggagcagtaa cccttcgaaa ttccacaaga 360
ttcctgcgtg cctaccagaa c 381

<210> 30997
<211> 316
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-001-Q1-K1-E11
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 cactggagaa acaaaaatca gcgggctgtt aaaactgtta atgagacaat aaaactcctg 120
 ctgctggaca gtaattatga gttagatgta ctttcacag ggggtttattt acctctatga 180
 tattacatag tataccttgt acatcagaat gatacaaaac aataagtccc aaaaggaag 240
 gtgagttaaa aaacaaaaaa aaaacaaaaa aaaaaaaaaa taaaaaagaa aaaagaaaaa 300
 aaactaataa aaatat 316

<210> 30998
 <211> 164
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-E2

<400> 30998

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 atccctccta tagtgtctcc tatattcaat tcaactgtcca gtcc 164

<210> 30999
 <211> 86
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-F12

<400> 30999

cccacgcgtc cgcggacgcg tggggtctgg tttctacctg accgtttcgc tatctgatgc 60
 ggaatcttta atatcataat agaaat 86

<210> 31000
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-G12

<400> 31000

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aactattgat tgatgaatta tgtctatgta tgaaattggt ctatacgaat ataagtgtgg 120
 gttaaactgc tgaatatgtg tgtgaatagt gaattgatga gtgatgagtt gtgttaattt 180
 ggtgttatat tgatatggtc tgtgaaacta tgagtataaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaacaaaa aataaaaaaa gataataaaa agctaagata ataaaaaaa aaaaaaaaag 300
 atacaaatgt tatactacat aacatggggg cgctccattt tagagacca agtttgattc 360
 cccatatttg cacaaagtta ctctttcatt tgggaacca aa 402

<210> 31001
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-A1

<400> 31001

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 gcatgtgatt gctgctacaa ttgctcttaa gggacttgga agtctcctt ttattttgac 120
 cagctccctc ggtgcttatt tctgctgct gtacctcgt ctgatcagtc ctatcgttca 180
 cgacttctac aactacgaca cggagaagga agaattcgcg cggctgtttg cgaagttcac 240
 ccaggacgtg gcgctagttg gagctctcct cgtcttcttg ggcatgaaga actccacccc 300
 gaagcggcag ggcaagaaga aggctcaca ggcgaagacg aactaattag aagttgctcg 360
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<210> 31002
 <211> 247
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-A11

<400> 31002

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 ttactggca gcgagtacgc cctcttcacc gagcgctgac attcgctctc caggctcgtc 180
 ggcgtcgatg tcacgaccga tgctgacttc cgcgaggta acctatctgt ctactaatac 240

atgcgac

247

<210> 31003
<211> 198
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-A7

<400> 31003

cccacgcgtc cggccacgcg tccgcccacg cgtccgtatc aacgtgccc a ttgtgccgcg 60
ctctaatacac catgcgtgtg aggtcttact cctaagtcgg ttggtgtctg gagggatggg 120
accaaacaga aaggtgcaag aacttttggg cgcattggact gcgctacgat cttgagatat 180
ggtccatatg gatgtcat 198

<210> 31004
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-C7

<400> 31004

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acgagctgca cacagacttc gttctgaaga atccgttcta tgagatggag atgccgattc 120
ggtgcgagct gtttgaccac aacctggctc aggtgatcca gaaggaccga gttgcgctcc 180
tgggtcggtg aaattggaaa gcttttggtc ctaaccatac catgtatctt gtactttccc 240
ccctttttct acattatgct cggacttact gtgcaattgt ctcggccgaa gacagctggt 300
gaccaacaac tgtttggtcc tgactattag caccgtattt ggaacagatc taaaaataag 360
aacct 365

<210> 31005
<211> 380
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-002-Q1-K1-D2

<400> 31005

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tagtaagttc atgaccgaac cggttaggat ccttgatgaag cgtgatgagc tgaccctgga 120

gggcatcaaa caattctttg ttgctgttga gaaagaggag tggaggtttg atacactttg 180

tgatctttat gatacactca ccatcaccca agctgttatt ntctgcaata ctaagagaaa 240

ggtggatttg gctcactgaa aaaatgcgta caaataactt caccgtatca gctatgcacg 300

gtgacatgcc cgaacttgga atggatgcca ttatggttga gttcagggtc tgcggcatct 360

cgtgtgctaa taactacaga 380

<210> 31006

<211> 155

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-E7

<400> 31006

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aatcaacata tgagaggtga ttattttaat ttgcaatttg tctacataat aaattagata 120

cgaattgtt tgtcaaaaaa aaaataatac aaaat 155

<210> 31007

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-G3

<400> 31007

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gggcaaagag atgtcgtggg aaaggaacgt gtcgtcctcc ctagatcttt cactttggcg 120

aattaggagg cacgtgtgat aaataagagt cttgctagtt cgtcgtcgtc catgttgtca 180

tagatcctgt cttgtgtgtt catgttactg tgatgcaggc aattgtgtgt tgtgttcggg 240

cgttatttgc tgtgttgtgc gttgccaaatt tgccagcttc agattatgtg tgaataaaaa 300

agag 304

<210> 31008
 <211> 399
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-002-Q1-K1-G7

 <400> 31008

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 gctggcaagt aaatcataaa ttatccaccc aactgggaac aaaacggaga ggctaatacat 180
 tctaactacg gcgctcactg atcactccaa tgacgtagta taacttccaa agttttattg 240
 aatggcccta cagatgtgta tgatcaagca atcttgggct tgggcttaag tttattcaat 300
 tgcgagtttg ggaaaactcc agcaggagcg atcctgggtc caatagagtt gttgggaaaa 360
 acaggggtcc tgaataactg atctgaggtc acaatgacc 399

<210> 31009
 <211> 88
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-002-Q1-K1-H3

 <400> 31009

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 ggagggttca aataacatgg aaaaaaga 88

<210> 31010
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-003-Q1-K1-A12

 <400> 31010

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 tccatgtaca aaaactagcc actacacatc acgcgaggtg gctcccgatt attcgacttg 120
 ctgcacggct ccaattcagt tcataccat acacgcatgc atcgtggcgc acgccactca 180

cgagcgcggc gcccatgcgc ccacaactta ttacgactcg tcaccaacca accaaaccaa 240
gccaccagc aggtccagtc caggcgtgtg tgctgtgctc tcctctaccg gccgcccggcc 300
acgtcacgcc gccgaggcgc ccttggcgtc gccgctgcag tagtcgcgaa cggcctcgag 360
cttgaagggc ggggcgtcgg tggcgagcca ctgctcgacg gtgaacagct gctgcccgcga 420
ccccttgtgc gggcccgtgg tggt 444

<210> 31011
<211> 89
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-B10

<400> 31011

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ggaaaaaaat aaataacagc gagacaaac 89

<210> 31012
<211> 142
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-E9

<400> 31012

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agagtataat gggtccaaaa ttacgtacac ataaatacaa caaaaataaa tctaataataa 120
agaaacctaa aattaaatta at 142

<210> 31013
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-F9

<400> 31013

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tacaacactg ggaaagccaa aaccttgccc atctcaatct gattggacta gatccacatt 120

tcgctatctg cagttgtagc aataaggacc aggccgatac gcgattgcca ttagtaacac 180
atgctcaatg tcaaagggga ctggcactgt ccctgtacat taacatcaac cgctgtgggt 240
gttacgctca cgctcaccgt tacagttgcc attgccatag ccctagctcc tgttcctttc 300
gttccttcct ttctcgatcat gttcaccggc ttgcctttc aa 342

<210> 31014
<211> 91
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-G7

<400> 31014

cggacgcgtg ggcggacgcg tgggcttttt gaaaaagtct caaattatta caaaaaaag 60
ggaatataaa atgaaaggaa aaaatagaaa a 91

<210> 31015
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-A12

<400> 31015

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ttgagagcta tacctacaag ctgcaatgt attccttgat ttctgcttcc cctaactctt 180
agggtgcttaa tgccaaactt tatgaatctc tttaaataga tcctatctag ttcaatacac 240
tctggctcctt tttaaataga cagacatatt tttatatgtc tactttatac aattcaataa 300
ctcatgagaa ctttaca 318

<210> 31016
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-A8

<400> 31016

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 cccccggga acccgaaagc cggcgagaag atctttaaga ccaagtgcgc gcagtgccac 120
 acggtcgaca agggcgccgg ccacaagcaa ggtccaaact tgaacggctt ttttgggaga 180
 cagtcgggta ccaactgcagg ctactcctac tctgcgggta acaaaaacaa ggctgtagtc 240
 tgggaagaag acactttgta tgagtacctg cttaacccta agaagtacat tcctggaacc 300
 aagatggtct tccctgggct gaagaagccg catgagcgtg ctgacttta 349

<210> 31017

<211> 54

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-G7

<400> 31017

cggacgcgtg ggaaaaaaaa aatgcattga tagaggaatt aaaaagataa aaag 54

<210> 31018

<211> 59

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-G8

<400> 31018

ttttctgctt gcatgcgatg atataacttt tctattgttt aacctaaatt caatttatt 59

<210> 31019

<211> 237

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-H2

<400> 31019

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accaccacca ggccgtcgcc tcgtgccttc aattctcctt tcgaatttag aatccccgtg 120

ctgagagctg agtgccgcct tggttgctcc gtactggact cgattcctca tcgcagcaga 180

agcatcccgt cctccgctt ctccttgctc tgctctggta acacacagac aaataaa 237

<210> 31020
 <211> 359
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-004-Q1-K1-H8

 <400> 31020

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 aactgacgtc ccattataaa tccttttcagt aatgataaca aaagtttcaa caaatgctcg 120
 acacaaagtt ttaacagcaa catattatag cactctgcag ccgggatcca tgtggctaaa 180
 catcataaca taaagttctc ggcagtaaga ggcagcagca ataattcctt cacaaacttc 240
 taacttcaaa aatataaagt aacacttagg ccagcattcg gccgttcttc aaatcaaata 300
 cttattcttc cttctcagcc ttctcgagcc atttgacata cggtccaga gctttcacg 359

 <210> 31021
 <211> 400
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-005-Q1-K1-B7

 <400> 31021

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 ggtgcatctt gcttaggcag aaggctgatg aaacttattg ctgtgtgcag tatcttgaaa 120
 atcatctgga gcttttagat ttcttgttg gttgctacaa gaacttggat attgcattga 180
 actgtggaaa tatgttaaga gaatgcataa agtaccctac acttgcaaaa tacatattgg 240
 aatctggtag ctttgagctg ttctttgagt atgttgagct tccaaacttt gatattgctt 300
 cagatgctct gaacaccttc aaggatctgc ttaccaagca cgaagttgta gtcgcagagt 360
 tcttgagttc ccactacgag cagttttttg aactctactc 400

 <210> 31022
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-005-Q1-K1-F12

<400> 31022

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aaggatagac atgtttcccg gactctctcc acaaacagga tccacaagtg ctggctccac 120

acaagcaacc atagtagaaa gacattcaaa tgctcggggt accttgggct catggaggtc 180

tgaatgtatc atccaaaaga ttgatgatac ttgttcatgg cttcgaaggt tactaagaag 240

gcctgaaatt gatgacactg aagcatgcct taacatggag ctaattgagt caacagccac 300

agaaaaatat gttttgcctt ctcttcaaa acctctcca agttcagtag tggaggacat 360

caattntgta acatccttca cacttctata aacagtaata ttatctntaa ttgttgagaa 420

ctgctntgca ctgttcctt 439

<210> 31023

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-F8

<400> 31023

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actagttttt ctacttggca tggaagtacc atccagacta tgaagtcttc tttgcttgc 120

aaataatact gtcaaagaac aagtcgacta cttttttgca tcatatttct gtttgtattt 180

gtggatatga aatgccatca acttgaagat cagcattggt actatttttg ttaattaaaa 240

aaaaaataat ataataaatt aaataaatat taataaaata tatattaata ttattatttt 300

ataaa 305

<210> 31024

<211> 144

<212> DNA

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<223> unsure at all n locations

<223> Clone ID: LIB3067-005-Q1-K1-G2

<400> 31024

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gggcgtactt tctaaaaggg ccaagcttac aaacacattc atgcaaaatt ataaacattt 120
ctatagagtc aaataaattc aatt . 144

<210> 31025
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-G8

<400> 31025

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agggcataaa attaccacaa cagccactca gagcacacac attgagtggc ccaaatattt 120
ccagctaggg aaacttgcag agtaactgat acgactacag caaagagcag cagggttaagc 180
tagattgtta ggaaagagca cctgcacctg gctgtctcca ttagtggata tacgagacct 240
ggtactgaac tgggtagcca ttaccgtaat aagggtccatg ggcaggttgc atcgtgtaag 300
acgctgaggt catcatggga agaagatgaa cctcagcgcc atacacaaac tgcctctcgc 360
aaggattgaa tgga 374

<210> 31026
<211> 178
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-B11

<400> 31026

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agcgttgacg acagatgagg ggttgctgca gacattgcac attcaggctt aagcaccagc 120
tatagtctga ggtgtcggaa tcacgactga gcagattcaa cagcatctgg atgagaat 178

<210> 31027
<211> 380
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-006-Q1-K1-B5

<400> 31027

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 cgtccacgcg agaagcgaga gcatggacac ccaggtgaag cttgctgttg tggatgaatgt 120
 gatgggcagg accggctcca ggggtcaggt gacccaggtc atatntaggg ttcttggtatg 180
 accagaaccg gctcatcatg aggaatgtca agggggcccg cgcgaggggt gacatcctca 240
 ccctgctcga gtccgagagg gaggccagga ggctgcgctg aagccctagc gttcttggtg 300
 ggctcttggt tggctcttggt tgtcttcgaa tttgtgctat ggttgaactt ttgtgaccct 360
 gtcttgagag tagtaagcct 380

<210> 31028
 <211> 201
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-C2

<400> 31028
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 tgtaccaaac atgtattgca aatttggaat ttttgtaagc tataataatg ccagcacggc 120
 aatatcccca catgataacc ccgaaatttg tatcgttcaa agttcaaacc atggatcctt 180
 aattcaaaaa ttttgccttt t 201

<210> 31029
 <211> 52
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-D10

<400> 31029
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<210> 31030
 <211> 57
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-D8

<400> 31030

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaa

57

<210> 31031
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-E5

<400> 31031

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caggaaggct gttgtcatcc acgtcccata cgcctgcgc aaggccttca ggaagatcca 120
tgtagactc gtcagggagc tggagaagaa attcagcggc aaggatgttg gtgattgttg 180
ctacaaggag gattgtgagg ccacccaaga agggttcagc tgttctgcgc cctctcacca 240
ggactctgac tgctgttcac gatggcatct tggaggatgt tgtctacca gctgagattg 300
tggggaagcg tgtcagatac cggctggatg gttccaagat tatcaagatt ttcttggacc 360
caaaggggag gaacaacact gaatacaagc t 391

<210> 31032
<211> 179
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-B1

<400> 31032

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aagggtacca gggtacttac acatgtatgc gattaaatat tctcttatat agagatacca 120
aaattcaatt cattggctct gtaattacaa cgtattgact gggaaaacct tttctttac 179

<210> 31033
<211> 248
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-B2

<400> 31033

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gtgtgaggct tgggtcccagc acacctggtg attatgtttg cgcccggggtc ttggtgccct 120
gaaaccctgg tgtgactgct ttgagctaaa tattcttgat tctatgatat tcttttgatg 180
tcttgtatat atttttcata tgtttttctt tatattctgg ttttaatttt atatgttttt 240
ttcttttt 248

<210> 31034
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-B3

<400> 31034

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ggctcacctc gccggcaaaa cctatgtgtc tggtgactcc attactaagg atgacattaa 180
ggctcttcgcc gcggtgccgt cgaagcctgg cgctgagttt cctaagtcgc cccgctggta 240
cgagaccgtc tctgcggctg tagcctcaag attccctggt aaggctgttg gtgtaaatct 300
gcctgcggga tcagctcctg c 321

<210> 31035
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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-B5

<400> 31035

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tgaggagctt gaagcatcga caagttacta gtcattgctt acttatataa gaacataagt 120
agtatttgct attgtcaagt gtgccttgct tgatgcaagt tgtgttttcg tatcattatt 180
attatgcacg gccatcgta cgtgtatggct tgtatgggtt attgccaact taataaaagc 240
acactctggt tgcctaaaaa aaaaatataa taattattat attaaatat 289

<210> 31036
<211> 96

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-007-Q1-K1-C10
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<210> 31037
 <211> 463
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-007-Q1-K1-E12
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 ctctgtacgt gttcacgctg acgctgccgt ccatggcggc catgttctgt gtgttcggcg 180
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 ctgttgtttt aatattgctg ttcttttttt ttttttttta gttatttttt ttttattttt 300
 ttttttttga ttttattttt tgtttttttt aatttattta ttttattggt attttatttt 360
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<210> 31038
 <211> 73
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-007-Q1-K1-F3
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 aaggctaaat taa 73

<210> 31039
 <211> 188

<212> DNA
 <213> Zea mays
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 ttacctatga attggatgag attgaaaaaa ttaagaaata actttgactt gtttggaatt 180
 taaaaata 188

<210> 31040
 <211> 177
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-008-Q1-K1-B6
 <400> 31040
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<210> 31041
 <211> 371
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-008-Q1-K1-C11
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 ccgggtcacg tccgttattg cagagtgcag acaacgtagc atagactaac aggacaacta 180
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 cacggacgga ttcaggggct cagttgcagg gtcctctcgc gaacccgacg cgcgagccgg 300
 cgacgtcgac gactaccgc acgttctgct gcttaagggt ggccaccacg ttcactactg 360
 ctttcacttt c 371

<210> 31042
 <211> 246
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-008-Q1-K1-D6

 <400> 31042

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 ttgacaggat cttattttaga cgctgctatt aattatattt atacgccttg tcgacgtcgt 180
 cctttcgact cttgtgcgcc atcgccgggc cgggcgggtcc ggctcagttg cagttgcac 240
 tggagc 246

<210> 31043
 <211> 398
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-008-Q1-K1-E10

 <400> 31043

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 gtgtcttcca caggaattac taaggatact actggccata gtgcagatgg taaagctctc 180
 acttcagaac cgcatatagg ggaaacacat gtcaactcag cttcagaatc cataccaaat 240
 gacgcctctc cccaaccca gagcaaaatg aatgggtcga ccaagaaatc attagtcaat 300
 ggtgttttgg atcaaccaa tgccaactca tggctagaat cctcgggaaa tgattatcct 360
 agctacacta actcgagcag tgctttgcc cccgcgag 398

<210> 31044
 <211> 154
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-008-Q1-K1-G5

 <400> 31044

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 ctgggttgta ctagtatgtt gcacagatct gaataatgtg cataagattc ttcaaaaaaa 120
 aaacacaaaa aaaacaaaaa taaaaactat taag 154

<210> 31045
 <211> 168
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-H11

<400> 31045

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 actagtaggg tgttactgta gttttcccag ttgaatttaa tttgcaactg agtttgtact 120
 caaaaaaaaa aaaaaaata taaaaaaga aaataaaaaa aataaata 168

<210> 31046
 <211> 215
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-H3

<400> 31046

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 gctgacgttc gtcgattgaa ggggtggaggt tgtttttttc cagcaactgg attgtatatg 120
 gatggattgg ggcctgagtt cgattctgca ttctgcttga gcaataataa gtctgagcta 180
 ttctgtcaa aaaatataat agtttctaata taaat 215

<210> 31047
 <211> 64
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-A6

<400> 31047

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 agaa 64

<210> 31048
 <211> 189
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-009-Q1-K1-B12

 <400> 31048

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 gccttccgtc cctgcgcatt cgccgtgccc atggactgtg ggcggtgttc actatatact 180
 catccaatt 189

<210> 31049
 <211> 125
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-009-Q1-K1-C3

 <400> 31049

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 gaaaaaataa aaaaaaaaaa aaaaaaaaaat aaaaaaaaaa aaaaataaaa aaaataaatg 120
 aaaaa 125

<210> 31050
 <211> 334
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-009-Q1-K1-C5

 <400> 31050

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 aaggtgaact tcaagccaca aattccaatg aaattaacct ttattagatc aaagattcgg 180
 caccctatgc gcaacggcat ttcgaggttc atgatcacac cttattgaca ttctacata 240

ttgtggatat gtatg'gcct ttataactg ggctctgaaa aactgttttt gggagatgtg 300
gggttgttgc tctgtgaaaa gatactcata gggt 334

<210> 31051
<211> 131
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-C6

<400> 31051

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ggattctgat gcttcactcg aggtcaatct cattaattca ttagtggcct tactggaatt 120
catgatatac t 131

<210> 31052
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-C8

<400> 31052

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atctgtcttg atgagactgg aggagaaatg aaggacgac aagccgtaca agtgcacttc 120
gttagggttt tacatgcagc taccttgtaa ttcggttggc ttccagaaaa aaaaatgtga 180
gcctggacac gtcaagtgc cacctcagtt ttgttgtaaa ttgttacta gtttgatagg 240
attattagta tgtacttatc aggaaaagaa ttctcagtat gtgttttggc tgcccattca 300
atgataggtc agtgattaac accgaagcat tgtgctcttg tgagatgctg tgttggtctt 360
aatatattga cggtactgta ccatggttta aaaaaaaaaat aaaa 404

<210> 31053
<211> 59
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-E1

<400> 31053

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<210> 31054
<211> 70
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-E3

<400> 31054

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gaaagaaaaa 70

<210> 31055
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-E4

<400> 31055

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ttttttatct ttttttttta ttttctttaa aatatctttt tttgtttctt attcttgctt 180

ttatttttta tgttttctta ttatttactg tttattattt tttgatgttt tatttatttt 240

ttctattaat tatttttttt ttttttttat tgtcttcttt tatttttttt ttcttttatt 300

tttttttttt tgtttttggt atttattggt tttctatttt ttttcttttt tttttttttt 360

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<210> 31056
<211> 151
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-H6

<400> 31056

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ggggtagcca atactagcgg gaccgatctt acttacactt gcatgcaaca ttataagctg 120

ttctctcttg taacgtatctt tcacttctct t

151

<210> 31057
<211> 473
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-010-Q1-K1-B8

<400> 31057

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ctgaagatgg ttactcaant taggganagc tttccgaagc caatactctg ggctgtgatt 180
ctgctctttg tgatgggttt catagcaggt ggtttcattc tgggtgctgt tcacaatgca 240
atcttgctga tagttgttgt ggtgatattt ggtttgttg ctgcacttct tatctggaat 300
gcttgctggg gtagtagagg tgcagttggg tttgttaatc gctatcctga tgctgatctc 360
agaactgcta aagatggaca atatgtaaag gttacagggg ttgttacctg tggaaatttc 420
ccccttgaat cctcgttcca aagggtcccg aaatgtgtat acacttctac tag 473

<210> 31058
<211> 260
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-C8

<400> 31058

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gttcgtagga ctacctattg tgacttgctg tatcgtaatt aatataata tatttggatg 180
tctatgtaaa taaaataaat aaataaaaaa taataaaaaa aaataaaaaa aaaataaaaa 240
taaaaaagaa aaataaaata 260

<210> 31059
<211> 77
<212> DNA
<213> Zea mays

<210> 31063
 <211> 111
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-011-Q1-K1-F2

 <400> 31063

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<210> 31064
 <211> 236
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-011-Q1-K1-H7

 <400> 31064

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 tagatgtaac gcgggatatg cattcatcaa tatgacagat ccaactgcaaa tagttccatt 120
 ttacatgaca ttcatcggca agaaatggga gatgttcaat agcgataaag cggcatcact 180
 tgcgtacgcc agaattccagt gaaggaacgc tatgagtgcct cattctcaga attcta 236

<210> 31065
 <211> 313
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-012-Q1-K1-F9

 <400> 31065

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 ggccaggacg ggaatgaagt tttctttaag atcaaaagaa gcacacaatt gaagaagctc 180
 atgaatgcat attgctaccg acaatctgtg gatttcaact cgattgcctt cttgttcgat 240
 ggtcgccgtc tgcgaggtga gcaaactccg gactagcttg agatggagga tggatgatgag 300
 atcgatgcta tgc 313

<210> 31066
<211> 60
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-A11

<400> 31066

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<210> 31067
<211> 283
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-A3

<400> 31067

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gtagtttcgc aaatgtccca tggtatggtg tggtaggtt aatttgaaga atccttatgt 180
actgaatctc tgcaaaaagc tatgttgtgg acagaagtgt aacgtgccgg atttcttgca 240
aaaaaaaata tattatatgt tttactttaa tttgtattat aat 283

<210> 31068
<211> 205
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-D1

<400> 31068

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ggtgccgaga tcttgctcga tctcttcggc ggcgaagagc gccaaaccaga tccgtcctgt 120
ttgttggtgt ggcgcctgag caggagtagg tcgcggccac agaaccctag gagcaaattc 180
catggcaccg agtgacacaa ttgat 205

<210> 31069
<211> 56

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-013-Q1-K1-D9

 <400> 31069

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 <210> 31070
 <211> 69
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-013-Q1-K1-E3

 <400> 31070

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 ggggtacgg 69

 <210> 31071
 <211> 53
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-013-Q1-K1-E8

 <400> 31071

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 <210> 31072
 <211> 94
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-013-Q1-K1-F1

 <400> 31072

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 aaaaggaaaa aataaaaaaaaa aaaaaaagat aaaa 94

 <210> 31073
 <211> 389
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-F11

<400> 31073

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tttttttttt tttttttttt tttttttttt tttttttttt taattttttt tttttttttt 180
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tttttttttt tttatttttt tttttttttt tttttttttt tttatttttt tttttttttt 360
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<210> 31074

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-G4

<400> 31074

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gaactacaat ccctgctagt aatccatttg tgctgtttat gtatcgaagg cagcaaagat 180
gtgtgaagcg gcaatgggat gcttgctgta aggtaatatg tttggcttgc taggcattgct 240
acacgctatt tggatgtagc aacgttatca ccagctgtat acgcttttta atcgacaaca 300
tttgaataat atgtacataa aataaaaataa tcaattaaat aaag 344

<210> 31075

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-H3

<400> 31075

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cgatgtattg aggcagaatt cttccaggtt tttgttgga gatgtctaca ggaaccagg 180
 tccgctccag tttgaaggac caggtgccga ttcaaagcct atctcactgt gcgtcgagga 240
 tcaagactac atgggcagga taaagaaatt gcaggaatac ctggagaagg tgaagagcat 300
 tgtgaaacct ggggtgctgc aagatgtcct taaagcggcg ctgagcgcca tgttttctgt 360
 gacggagaca cttgacaata agacctcatc gttcaccgcg cagactgcac tgtgacttcg 420
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<210> 31076
 <211> 223
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-A10

<400> 31076

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 gggcgacta cagttctgtg atgtaatgga ttctgctagt atttgactct tgtgcttttg 180
 tacagaaaaa aataaaaata aaaattaaga gaaaaaatat aat 223

<210> 31077
 <211> 155
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-B7

<400> 31077

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 aaggtgaaca tattttactc ttttgggctc cttgtaattt cattagtaaa atctctactt 120
 aattattaat gctgcatagt taaaaattta taaaa 155

<210> 31078
 <211> 226
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-C9

<400> 31078

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tcgggctgta cgccgacccc gagaccttcg ccaagaaccg ctagctggag gtgatccact 180

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<210> 31079

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-E11

<400> 31079

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gtcaatgttg gagatggctc tgagacctca cctgggcagc ataatggctc ggtcactctc 120

tcttatataa tggacttttt tggatcaatg cttccaggct aaaatgttct atgaaattct 180

tcatgtctgc ttccactaat tgcttccatt gagcatggcg aggttagatt ttttgcac 240

ccataattgt tttgagcctg ttactttgct ttctcttttg attgtctttg tcagtctttt 300

gttttttttt atcttccaag tggaaacact ttttctaatt gttctatttt actttatttt 360

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<210> 31080

<211> 171

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-E7

<400> 31080

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gggtaatttt aaaaattatt caggatgaaa tattaatata atttaacatt aaaacatatt 120

atataaatta ctataaatgt gcaacctctt ttgaggttcc tggattatat a 171

<210> 31081

<211> 447

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-014-Q1-K1-G12

 <400> 31081

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 gagcagctgg tccatgcac cactattct cagatccaaa atgttgTTTT catggagctt 180
 accaacgaag attctgaaat atgcagttca agttacggat atcaagctga agctttacca 240
 acgcggctat cattcacgtg gaaagtggaa aatttcttgt cttttaaaga gattatggag 300
 tccagaaaga tttttagtaa atatttttag gctggctgct gtgagttgCG gataggttga 360
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 cctgattaga aactttgggt acatttt 447

<210> 31082
 <211> 54
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-016-Q1-K1-A10

 <400> 31082

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<210> 31083
 <211> 130
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-016-Q1-K1-A2

 <400> 31083

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<210> 31084
 <211> 87

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-016-Q1-K1-C3
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<210> 31085
 <211> 155
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-016-Q1-K1-C5
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 atggtactat ggtgaaacat tgtgtcagtt tttgtggtct ctgtatggat tttgaagtat 120
 gcctaaagaa gtttttggtg cttaaaaaat aatat 155

<210> 31086
 <211> 60
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-016-Q1-K1-D1
 <400> 31086
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<210> 31087
 <211> 442
 <212> DNA
 <213> Zea mays
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 tgtacatata tcatgtttat tggctgagcg aatttcattt atttgaggtt agtataacct 180

atattagatc tgcctagtga tcatatctca tctatagggg cgttcgggtt atcttttata 240
 gtttcgtttt aagttagaat ttcttcta atctgtttaact tttattatct gatctgtttt 300
 actgtttgag gttatTTTTT ttttttctta ttttctttta tgtgtgattt ttgtattatt 360
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 atttccttaa tgttttgatt tt 442

<210> 31088
 <211> 203
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-G5

<400> 31088

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 gggagaccta tcttttcttc gcagcaggca tcagatctca taggggggtc ttcagtttcc 180
 aactcaagga aagatgagtt cta 203

<210> 31089
 <211> 73
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-G7

<400> 31089

tcgcccacgc gtccgaaaaa aaaaaataaa aattctaaaa aaaaaataaa aacaaaagaa 60
 taaaggtaaa act 73

<210> 31090
 <211> 87
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-H1

<400> 31090

aaaaaaaaa aaaagaaaaa taaaaaaaaa ataaaaaaaa aaaaaaaaag aaaaaaaaaa 60

caaaaaaaaaa cgaaaataaa taaaaaa

87

<210> 31091
<211> 93
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-H6

<400> 31091

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gaatttggga ccggttctgt atatatttta aag 93

<210> 31092
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-A1

<400> 31092

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gcagagtatg cgccgtcact gtgtcgatct gcagtttggt cgtttaaaag tgattgtagt 180

gtgtactatg ttcagctcga tgatctcgga gtcgctatat acgctcgctc ccgtgctgga 240

cgggttatcg atctgatgaa caagaataca ataatatgta tggatacttg tgactggggtt 300

ccgcggaagt ctggctttta ttaccgtgtg attgggtacc tgcacaaaaa taaaatattt 360

taa 363

<210> 31093
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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-A12

<400> 31093

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tgacttgttt ttgatttatt tttattct 88

<210> 31094
<211> 158
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-A7

<400> 31094

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agcggaatca tcaaagaagc gattgtgttc tgactttttg atgtagttct tgtgacgtgc 120
aatgctatcc atgcgtcgca ctccaaaaaa aaataatt 158

<210> 31095
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-B12

<400> 31095

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ctggtgctgc caccaaagtt atcctcccct gcctgctgct tgctatgtct gaatcgtgaa 180
caaccgttgt tgtcatttca tgtgtgtacc ccgtgcaatg ctttgtgctc atggttgatt 240
tctctgtggc aaacttcccc tccctgcatgg ggttgtaagc tgtctctaaa tttaacggca 300
agtcgtatgc ctgaaccttc atcttaagtt gttgtcgtat cccttcgtct tgtttcgggtt 360
gcaccccggtg atggtatgga ttgggtgctg acc 393

<210> 31096
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-B4

<400> 31096

cccacgcgtc cggaacgtca tccgcgacgc cgtcacctac accgagcacg cacgccgcaa 60
gactgttacc gccatggacg tcgtctacgc gctcaagcgc cagggccgaa ccctctacgg 120

cttcggaggc taggctggat gcctcttctc cttgctgtcg tggatgcctg tttgttgta 180
 gggttatttc gtttagttcc ttgtctgtga cgtgttggac tattgttagt agtattcttg 240
 aagttgtttc gaatgtaatc caatcttata gttcgataat tgaaaaaaaa aaataatatt 300
 atatataatta attattttatt tattattatt atttttctat tatataaaaa ttaatat 357

<210> 31097
 <211> 95
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-E11

<400> 31097

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 tctcattgtt tctcaatccc gagcccccca taaaa 95

<210> 31098
 <211> 314
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-E3

<400> 31098

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 ccaccgagac agtggaaagt tgaacgtctt agtttactgt tccaagtgtc gcgaaaagag 180
 ttttctgtac tagctacata ttttaaagtgt ttttttgaat tatgatgaga aaccaaggta 240
 tgcaccaag ataattgatg tcctgctgtt ttcgtatgtg ggtatcgaac cccaaagaaa 300
 tagattcaaa aatg 314

<210> 31099
 <211> 63
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-H2

<400> 31099

cggaacgcgtg ggcggacgcg tgggaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aga 63

<210> 31100
<211> 166
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-B12

<400> 31100

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tgggttcttt tcttacgctg cggcacctaa taaatgactt gccttctatg ttttcgagaa 120
acttacatta ttctttttta tataacaata atactgtcta ttcagt 166

<210> 31101
<211> 313
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-C7

<400> 31101

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gtgaaatcag ccttgatgag atcaaggatc gggctcgcta ggcacatga tcatgcatca 120
tggactcggc ctactactgt ggatttgtat gccattatag acttggtgct gtgaaagact 180
gcttgatgat ttgcggggtt gttgctgtgt aaaaaaaggt cccatggctc ccagaagacc 240
atgaagggtc ggatctatca tgtaattcct tggtatctgc caattatga tggactaaaa 300
aaaataatat aaa 313

<210> 31102
<211> 514
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-018-Q1-K1-E10

<400> 31102

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 tctctcgatc tccatccggc atccagctcg tcccgcaact ccgcaanagc tagcttctcc 180
 ggacttagtc tagggctctc gatctacgct cgcttagatc taagtcctct actcccggca 240
 tctcgagggt cgcattgcgtt gatgggcggc ggcattccggc ggacgctaag ggcggagggc 300
 cgccaagtat ggatcctcac tcgaggaccg atgactgagt tcgaagagct tcgagaatcg 360
 accatagaat gggatgaccc aggaagaagg catacgaagc cgtccagcat gtgggaggat 420
 gatntgggat gaccgatgac gtgaatcgat gaatttctct ttgcatgctc aaggggaagag 480
 cttggacgga agcaatggcc cagaagagct gaag 514

<210> 31103
 <211> 385
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-018-Q1-K1-E12
 <400> 31103

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 gaacactgaa attggcgatt ggtaccgacg catggaagac gcagttggag aaccatcaag 120
 aatacaggat gcagaagcaa actagaattt tgacaacatt cttttaaata ttttagaggt 180
 atccgtgcct atgcatggag gctattcaaa ttttttgcca gaatcaagtg tatgcaataa 240
 tgctctgcca gattattaag cataataggc taatagcacc tgaggaacag tgttttttga 300
 cttgggaact tggttgtgtt actgtgtaag gttttgctcc cctaaaaaaaa aaaaaaaaaa 360
 taaaaaaaaa agaacactaa ataaa 385

<210> 31104
 <211> 334
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-018-Q1-K1-E9
 <400> 31104

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ggcagcggca gcgtctcata attcagcttg ctgtggctac tgagcacttg tcaccgcgtg 120
 atagtggcgt tctcgcgcac gtaattatca tcgtttcatt ctttgccagc cactctcttc 180
 ttgtgcttgt tgagctatcg cacttgctgt ggcttggaaca catgggttct aactgctaaa 240
 ccagatcaga taattgctgt attgtgggaa ctctacccat ggtaaggcat gcataatggc 300
 tgtgcaaagc acctttttac actaaaaaca cact 334

<210> 31105
 <211> 85
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-G5

<400> 31105

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagaat 60
 aaagaaaaac aaaaacaaaa ataaa 85

<210> 31106
 <211> 109
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-G7

<400> 31106

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
 aaagaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 109

<210> 31107
 <211> 277
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-H9

<400> 31107

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 tggggaagcc atacaggggtg ttctaagtct gctcttttgt gaagtctgct aggttctggc 120
 accgaagttt tatcgaatta aactcttggt aagagtatgt ttttggaaga tcctatatatt 180

cgctectggcg ctactatggt tcagaatggt ggtactacta taagtattgc ttgaaaggat 240
 caatataatt tgcgtgtcat acccacataa taaaaat 277

<210> 31108
 <211> 294
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-A12

<400> 31108

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 aagaaaaaaaa agaaaaaaaa aaagaaaaaaaa aaaaaaaaaa aaaaggaaaa 120
 aaaaaaaaaa gaaggaaaaa gggatgagga taagaaaaga tgagagcgta cacggagagg 180
 cgagtgcagg gagagaggag taagatagag acgcctaaag ataaggaagg ggccccgaac 240
 gaaaaacgtc agggccggaa taaacatggg gatgccaggg aaaaacgggg ggac 294

<210> 31109
 <211> 377
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-A6

<400> 31109

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 atgatcatca agaggagcac aatgagcaac tgtctgggtc cgacgtcagt tcctgttctt 180
 gatggcgctc ttgaccatgt tcccgggcat ggaggacgat ggcgtgacgg ccttccggat 240
 cttgaagagg ttccacgccg tccccacggc gtggccggcc gtcgcgaacg cgtcttgggt 300
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 tgcagcgagt gacttct 377

<210> 31110
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-B2

<400> 31110

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ttcgggtgcgc cgatggggca ggcgttccgc aagctgttcg atgccttctt cggcaccagc 180
gagatgaggg ttgtgatgct tggctctggat gccgccggta aaaccacat attgtacaag 240
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caatacaaga atgtgatgtt tactgtgtgg gatgttggtg gccagaaaaa gttgaggccc 360
ttgtggaagc actacttcaa caatactgat ggcctgatct acgtagttga ttcgttggtat 420
cgggagagaa ttgga 435

<210> 31111

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-B6

<400> 31111

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tctcgtgga atgggtcttc cctccttcgg tcagaagaaa ccctccctgg ttgtactgta 180
ctaggcaatg cgcacctgc tagatcgct ccgctgaaat ggaaagcgta tgtgtgatgg 240
tgacatgaag ttcacttggt taattattac catttcagta aatccatgct tcttgcaaaa 300
aaaaaataca aaaggaacaa agaaaaata tactagcaaa gcaacacat 349

<210> 31112

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-C1

<400> 31112

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Sequence 13437

aagcagaagg attagtcccc aggtatcggc tggcaattat gaagttggac aggtttcata 120
caaatacaac ttgctcaaat ccagaggccc caggagaatg tattgcactc tcgaatgccc 180
ttcagcccaa gagacttggg aaaactcact caagacaaag ttcaagcgcc ccctgggccc 240
cacaacttta cgaaataaag caccocgctg gcatgagcac ctgcaatgct ggtgcttaaa 300
cttccatggg cgggtaacag ttgcatcaat caagaatttc cagcttgtgg ctgctgccga 360
ccccagtgag cctactacca acgtggatga 390

<210> 31113
<211> 275
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-C5

<400> 31113

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gtagacaaac tcgggacggt tgcttatcct aaaaattcga ttgtactgcg tggcatgaaa 120
tgatcgattc gaagaatatt ttgaacatgc tgccacctaa tcaaaaaatt tcatgtttaa 180
cttaaaaaaa aaaaaaaca aaacaaagac aaaaaaaaag aacaaaactg aaaaaaaaaa 240
aattacaaaa aaaaaaaca aagaatagat aagaa 275

<210> 31114
<211> 302
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-E4

<400> 31114

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atccgagcct ggactggctt gttagggaag tctttgcctg agatttcctt gttcggtaaa 180
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gtggatgcta ttgcaaagtt ttggttttta caccatgaga tgtgtttaa aaaaaaaaaa 300
aa 302

<210> 31115
<211> 144
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-F10

<400> 31115

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atgcacttgc cagatcacgt acgcccgtc ctttcgattt cttcccatcc attgtcacac 120
tttcgccggt gtttcccgtc aagc 144

<210> 31116
<211> 444
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-019-Q1-K1-F11

<400> 31116

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aaccgcagcc actggccagt ctatgcccac gactgcggtg cccaggaccg gccccggttg 120
cctgggggtcg ccgccggctc atgctctgtc gagctcacta gccgggggttc aaggcgcccc 180
gaatcgactg ggcgtatcga agccgtcgtg gatcgttcgc actgagtcaa acgtgaggat 240
ggagagagca aaacgacctg atcctacttg caccatctgc ataggcacag ggagaataga 300
ctgccgaac tgttttggtc gacgtagaac aaaccatgcc gatgtggcca tgctttcgaa 360
cggcgaatgg ccacaatggg gtncaatttg tggtggtagt ggactggatt actgcctncc 420
gtgccatgga actggtgagt atcg 444

<210> 31117
<211> 286
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-F2

<400> 31117

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gtgctgcgtt ccgctagccc atgtctactc tgtactatct cataaaaaaa aatagatcca 120
gctgagacgt tgttcctcc ctctttccct gtaccgtgtt tcatggtgac ttgtgacaat 180
ggatggtttc tccttgtgcg tcgccccaaa aaaaagaaaa acaaagatgc aatgatacac 240
aaggaaagcc taagagaagc gagcgaaggt ggaagcaaaa cgcgaa 286

<210> 31118
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-G10

<400> 31118

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agccaactaa ccattgaaga gtatcagagg agttgggagc agaacgagga acttggctctg 180
aatgacatgg atacgtgctc tgcagactcg gcttacaaca cgaccaacac ataattattt 240
tagttttgat gtgccgaatg tatttgttac gctatcagtt tactttgatg aactttcagt 300
gtgtatacta atatcaacaa cttatatttc ctctgacgat aaacaaaaga tg 352

<210> 31119
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-G6

<400> 31119

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cctccctgtg tgtttgtgtt tagttccagt cgtttgtgag gaagtcagtt atgtttgagt 180
gagaggggta cttcgctctt cggttaactc tgtacttgtc atgaggagag ttttcatacc 240
cggagtgtag gaactctgta ctgtactcgg atccttcctt tttcataaaa aaaaaatata 300
agaaaaataa aatta 315

<210> 31120
 <211> 409
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-019-Q1-K1-H10

 <400> 31120

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 gctgtcgccc cagcacacgg cgctgcgggtt tcgggggtctc cttctccttc ttgcttatcc 180
 ggatgcccga acttgtccgc gttctcctcg ggagacctgt ggtgcgccgc tatcgtgtaa 240
 ccttgtggag ctacgcgcca acgtggactc gctgcagaag ctgctcgggc ggaaagccgt 300
 cttcgtagac gatgacatgt tcttcaagga ctacctggtc gtcgaccagg cccggaccat 360
 taacgttctt gaccagaggg tgcagtctct ggaacgtgaa ctcgatgct 409

<210> 31121
 <211> 138
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-019-Q1-K1-H4

 <400> 31121

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 gtaacttgta accattttgt aataaagaat ttacgctgca aaaaaaaaaac taacccaaag 120
 caactaacia aaaactat 138

<210> 31122
 <211> 251
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-019-Q1-K1-H6

 <400> 31122

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 ttgtaataca gtgaagcagc caacaaagaa gatacaaaag agaccagagt agcggcaaca 120
 ttaagtattc atcgttgggt gcttcaactgt attacaagaa attgctagac ttggattatt 180

tcagttgttt tgaatcatgt actggttgca ccaaaaaaaaa aagaagagaa taagaccgag 240
ggaacacaaa t 251

<210> 31123
<211> 311
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-020-Q1-K1-H9

<400> 31123

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ccctaattcg atatgctccc ggtatctttt tgaagttttt aaataacttg aaaaccttgg 120
gccccacatg ctacgatagg ttgttcccat tcaactgatca ggggacctgc cttacaaaga 180
tttgctgtt tctggttaac aaagccatcc ccaaagctta tcagggatta caaacttgcc 240
ctttgtagtc gcaccatata gctcaatgct caacttttac tttgacattt ccatttggca 300
aaattccctg g 311

<210> 31124
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-021-Q1-K1-C12

<400> 31124

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gacagcccca acaccggtgg catccacatt ggcgtctaata tcggcatcac aatcaccaac 120
accatcattg gcatcggtga cgactgcata tacatctgcc tctgcacctg caaggtgaac 180
atcacctgca tgacctgcgg ccttagctac ggcattagca tcggcatcct aatgcggtac 240
atggaccaga acgacgtcac ggacatcaac gtcaacgatt gcactcttga taagactatg 300
ttcaacatga tgtgtcacgc tgctcaactc cttgatcaac tacgccatta gcctggtctg 360
tactgt 366

<210> 31125
<211> 84

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-022-Q1-K1-C12
 <400> 31128
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 atggagcaga tagagcgagg catgctatgc catggcccat ggcacgcgcg gctgactgtc 120
 tgactgactc gaacaaaaca caaaaaacga cactgctaca atattatata ctagagctta 180
 ttaattagct agagataaag agtccttccg aggaccccat cacgccctgc agcgtcatcg 240
 ccgccgtcgt ctcaattgca ggtgcagggg tcgcaggtgc agttggcgcc gcacttgcac 300
 ccgccgttct cagctcc 317

<210> 31129
 <211> 55
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-022-Q1-K1-C7
 <400> 31129
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gaaaa 55

<210> 31130
 <211> 243
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-022-Q1-K1-C8
 <400> 31130
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 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
 tttttttttt tttggttatt ttttttttaa aattttttat tattttgttg ttatttatat 180
 atttagggag atttttaaaa aattaaaatt ttatgtttat tgatttataa tattaaattt 240
 ttt 243

<210> 31131
 <211> 210

aatgaataat atgaacactc gccttcgccc caaaaaaata tgaaaacggg accctgattg 240
agaacatgat aaaagaagga aaagatgtcg ctcggaagt gactatgaag ctagttcacg 300
aagccatgat tgcaaagtaa aaatgactta tttctggatc gccggaatta cattgaatga 360
acgggaattt aaataattg 379

<210> 31134
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-H2

<400> 31134

gacggaaacc tgaagaacat tatctttag cttctattct cgatggaatg gatagacggg 60
ctatggcgac atcatggagt gccaaagcctg ctgaccagac tgatatgaga acgtactctt 120
atatgcctcg taacgccaaa tacattgggg aggtctctgc aactatcag attgatcatg 180
gaatgctaaa tgtattgcaa gagaacgcta aactactcaa tcaaatacaa gtaaataattt 240
taacatcaca ggagtaattt tcaattcgtc tagataatac ttttcaggcc cataacaata 300
ttgaactttt tcatcacgca agaaggaaca tcaatggtct tttaaaagc atgagccaaa 360
tttctgaat aatgagcaag atgtcccc 388

<210> 31135
<211> 51
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-B10

<400> 31135

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<210> 31136
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-B11

<400> 31136

aagcaatgct cctatgttgg attgtgaaat gaccgcgcct tgagactgga acctgtgggt 60
gcaactgtgc atttcccctg ggatgtttga cgatctgagg catgcgagcc tgttgttgaa 120
gatgcaaggt tacgtacttg tacgacaatg tgacctgtgt agctgagtag tctatgtcgc 180
agtgacatgt aacggcaccc cccttactac taactgacgc ttactcgaga ttgccatagt 240
tgatcttgta atttgttata gagcagtatg aatgtattta tggtagcttg aatctatgta 300
tggattcact tcgattttcc atgttccctt gactgcagac ccagattgct accgtattgt 360
ttcagaattc ctagctacct gttgcctaaa 390

<210> 31137
<211> 175
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-D9

<400> 31137

tcgtacggct actcaatttg tgcacatgct tgtacaggat gtgaacacct gaaccatcga 60
cgctctggga cagctaata gttgttcacg ctacgacggg ctgattgggc aagacacagt 120
gacctgcatg aatatggtaa tacgtctacg aatgtatgca gccacttgca caatg 175

<210> 31138
<211> 254
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-E7

<400> 31138

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ttcttttgta ggttcatgca tccattgtct caagtaggat tctcgttttc actatcactt 120
tctacattac tgaatagact ggggtatcat tcttttactc cttttatatt tgcttttatg 180
ctgcggtaaa tttgatggta ttctaataat tttagtatat gtaagtatgg tttgcagttg 240
tatatattat tagt 254

<210> 31139
<211> 404

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-023-Q1-K1-F3

 <400> 31139

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 tctggggccga gcggctcggg cgcgaccacc tcggcgggat gaacgacctg tgggtgaagc 120
 actgcggcat ctcccacacg gggtcgttca aggacctcgg catgacctg ctggtgagcc 180
 aggtgaaccg gctccgccgc gcgcgctgt cgcgccccat cgccggcgtc gggtgcgct 240
 ccacggggga cacctcggcc gcgtctcgc cctactgcgc cgccgcgggg atcccgcca 300
 tcgtcttcct ccccgccaac cgcctctcgc tggagcagct catccagccc atcgccaacg 360
 gcgccaccgt gctctcgctc gacaccgact tcgacgggtg catg 404

<210> 31140
 <211> 340
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-023-Q1-K1-F4

 <400> 31140

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 ggggtgtcaat gcgttcgtgc gacacattaa gaacgtcata atccatgcca cacctgtcat 120
 cttcaacacc ctgtaccaac cctaccgaga gggagcttac tatctacata tataccacta 180
 taaactcaac atgggtaccc aactgctgt ctaccactag cttttcactg aacatccctg 240
 actattatac acccacacaa cttatgaaac ctaaagctaa gaacgaaacg taccttgatg 300
 ctgtaatcac aattcccaat ggaaccttgt ttaccatgtg 340

<210> 31141
 <211> 357
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-023-Q1-K1-G12

 <400> 31141

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gcggtgctgc gtgcgtgcgt gctctgcatg gatactatag agaggtagct agctgctagc 120
cagtgtgtgt gcgcgagagc gagacgaggg agatggacat gtcaagtaga agcagaggat 180
atgatgtcat tatacatatt tacttcgcga gatatgtagt tcttcatgag tcttcgctgt 240
gcggttttct aaaaaaaaaa aaaaaaaaaa agataaataa aaaaaaaatt acaaaaataa 300
aaataaaaag gaccatgaaa taaaaataaa tataactaaa aaaaaaaaat aataaaa 357

<210> 31142
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-H8

<400> 31142

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acgattcttg agaaatcgct atcatgtgtc agctcatcat tcatgggcga ctatgctatt 120
cacggttctc aacagcttgc caggctctct atcgaaatgg tctgtgcata cttttgctgc 180
tatgcgttcg ctctgtacta gcagctggac tactggctag aatggtcagt tcttctgccc 240
tgtttctgtt gctattcgcc tcaacgttgt aaaactgaat tcagaacagt ttaaatatag 300
ctgtcatctg gtctaacatc tggt 324

<210> 31143
<211> 123
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-A1

<400> 31143

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tcggatctaa gataaaagcg agctgaccaa agcattaaag cagagatgga cctataactg 120
aat 123

<210> 31144
<211> 286
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-A2

<400> 31144

ggccagaaga gctgaagtat tatttctcta ctttatataa atgattttta tatggcagct 60
acttttggaa ccgttgatgt gctttggatg tgaaagtttt tggacatcag tcggcaattt 120
gacagcactg tacgtgttag ttgtcgttag gatatgtctc tagccgaaac gctagatccg 180
ccacaatgtc tacgccccaa ctgtttttct taaaaaagtg ccgcaactgt ttttctaaaa 240
aaaaaaagag aaataaagaa gtagatgcag aacaccaatt ttttaa 286

<210> 31145

<211> 122

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-A8

<400> 31145

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaggac gaacgaatct gaaggatcga 60
aactgacaaa cgcgatcatg cgaacggcat accgtcttct atagtgccac ctaaattcaa 120
tt 122

<210> 31146

<211> 64

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-B7

<400> 31146

cggacgcgtg ggtcttgttt aacaaacaaa agacagaaac acataaacia ataaaggaaa 60
atgg 64

<210> 31147

<211> 196

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-025-Q1-K1-B8

<400> 31147

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nttctcgttt tggggccttg aggggtgcac tgnntggcgg tgtgaagggg cttccctggg 120

tctggtggct nggttgggtg ggttcaaata tcgnnatggc gcnnaggtgt nnnngctgcga 180

tctttcggct cgtagc 196

<210> 31148

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-D12

<400> 31148

tggacatatc tacatattta catggtgctt gcaaatataa caaaggagaa gataggaacc 60

gggagcataa catgacatat cacattccat gaaagggctc actggattaa gttgattcaa 120

gtctgactgt acagctgtgc agactaacta acaacagggg ctgcgctggg catcgctata 180

cgactaagga ccgtgggaac tccttataat ccactgatcc aacacatgct tgctgagtaa 240

gatcttactg aattttaccg tgtgctgtaa acgactggaa ctatactgtt tttctattct 300

gatga 305

<210> 31149

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-D8

<400> 31149

caaacaaaac agatacttgt catttcgaac aaattcagac gtgtacattt tttacactac 60

gatccaccac ttagaaatgt aataccatac attccataac tcgagtgcac agtcaaccat 120

gtaagacttg ttcgattagc tctcaatcca tatggattga gtgggattag atgtgttgaa 180

ttcctaagca agtcaaagtt cttctaaatt ttttttaatt ccatcaatcc atgtattata 240

ggaataaccg aacaagacct aaaagtacag gactctttat gagtattatg ctagagaaat 300

aagcctgaat gttcagacca gccctttttt taaaaaggaa cttggatctt caaaacaaaa 360

tcgttatatg gccttctgct agagaaatca tgcctgcacc aatgcactca tg 412

<210> 31150
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-F12

<400> 31150

tgccaagatc tctcaactgg aactttcatt caaggagatt attttcggct acaggaaaca 60
acctcagtgc aagccacaag ttttccgaag cgtctatggt cattggcccc caagaagccg 120
taacgggaaa acaggagaag accacgttga catcatcact ttctacaacg aagtattcat 180
tcctgccgtc aagtccttgt tgggtggaggt agggcctggc gccagtccaa agaagaaaga 240
agaggaaaaa ggtcctgctg atgtagggtcc attcccagaa tctccccggc tggctcgggt 300
cccgaacctc cccgacatgt ctcaaagaa ggtttctgct acccataacg tgtacgtctc 360
accgctacgg tcatcgaaga tggacactct gctgtccccg agctccaaga gctactacgc 420
gtgcgtcggc gagagcacct acgcgttc 448

<210> 31151
<211> 368
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-025-Q1-K1-F4

<400> 31151

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ggtggaatat cattaaatga cattgcagaa tttgatggtg gggcaacaac tgaagaaagg 120
agcagcctag agaagcaccg atctgatgag ggtgtgaaga ttgctgtctc ccagaatttt 180
ggtagtatga atgaaaaagt ggcaattgca cctacctcaa gttttgagaa tcaagaagga 240
ttgcagcagc ctctgtgaagt tcttccaaat gctaaactaa gcaaaaataa tgaccaagag 300
aacagtgatg tgcatgatat acaagtgggt gctacatnct gtgattcaaa aggacacaag 360
tttggatc 368

<210> 31152
 <211> 255
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-025-Q1-K1-G11

 <400> 31152

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 gggccacaca tgctacgata ggatgtaccc attcactgat caggggacgt gcaataaaaa 120
 gatttgcttg tttctgggta acaaagccat tcccaaaact aagccgagat acaaaacttg 180
 ccctctgtag tcgtaccatt cgctcaatgc tcagctttca ctttgacatc tgcattaggc 240
 aaagtaccct gggac 255

<210> 31153
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-025-Q1-K1-H2

 <400> 31153

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 tcgtgggaat aggcgctagt gttacctgat tcagcttgat gtgaatttga aggttgctac 180
 tgggtgctttt ggacgtttca taggcaattg agagttgaga tctcttcaga catcatgttc 240
 acgcggttca gagtatttga agtggaactt aaactggaaa gtgtaagata atttccagca 300
 gagggctcct gtcatacttg cttgtttccc taacgatgat ggtggatgtg cctgggtgcc 360
 gactactgtt tgaacgaact gatcgtgcct tgctcatttt ctaccggcat cggatgtttt 420
 tg 422

<210> 31154
 <211> 55
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-026-Q1-K1-C4

 <400> 31154

aattctccgt gtcgactcca ctcgtacgcc caccggttcg cccactcgtt cgaat 55

<210> 31155
<211> 244
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-C6

<400> 31155

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taaaaggatc tgaagtgggt aaataatcgt gggtaatttc gtttttaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa atataaaaaa acaaaaaata 180
aagtacgcaa gcatgcaaag taataacttt tctatagcgt cacttaaatt caattcactt 240
tcca 244

<210> 31156
<211> 98
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-D10

<400> 31156

cccacgcgtc cgcccacgcg tccggagcag tagtatgaac ctgttgctg ttctgttgga 60
aagatttccc attttaagtg caaacctgag tttctccg 98

<210> 31157
<211> 365
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-026-Q1-K1-D12

<400> 31157

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ggtcggggcg ggaggtgcac gtcgggcacg agctgtgcga gcgcaagtcg cgcgagttca 120
tggtggagct gggccttccc gacgggctcc taccgctgcc cagcctggac gaggtgggct 180

acaaccggtc gacgggggttc gtgtggctgc ggcaggccga cggcctgacc cacaccttcg 240
gctccatcgg caagcaggtg tggtacgaca gggaggtgac ggcgttcgtg gagccccgggc 300
ggatgcacgg nctcgccggg gtgaagagca aggagctcct catctgggtc accatctncg 360
agatc 365

<210> 31158
<211> 64
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-D8

<400> 31158

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

aaag 64

<210> 31159
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-E8

<400> 31159

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caaccaagct catacatctg aattgactag tccaactcag ggattttcttt ggggaccaat 180

caaactcaag aactaagttt catgtctgat ctcgacgtcc agcttccatc tgcttttgat 240

ccgtttgcag aggcaaatgc tgaggactcc agtgctgggtg ctggatcaaa ggactatgtg 300

cacgtgcgta ttcagcagcg caacggaagg aagagtctga caactgttca gggcttgaag 360

aaagagtaca gctacaacaa gatcctcaag gatctcaaaa aagagttctg ctgcaatggt 420

actgtagtcc aggatccaga gc 442

<210> 31160
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-F4

<400> 31160

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agctacgttc aagcctgcta aagttttacac atgaaactgt aaaatggcag ctgaatgagt 120
tggaacaaaa tgacagccca aatccccaag cacatttatt gcattggctc agtgtcggat 180
gtagtagcaa aaccatctgc gtaaattgggg tgaagatcat gaccagcaac tggatcaaca 240
tgaaccatt tcttgctga gagtttggtg cgctcaaagc gtacattgcc ttctttcagg 300
cagaaaagtg tatgatcctt gcccatgcc aatagtttc caggatggaa gcgggggtccc 360
ttttggcgga caatgatg 378

<210> 31161

<211> 133

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-G10

<400> 31161

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atttactttc caaacttcat tattctagaa aaaactcaaa gatatttaat ttaaaaatat 120
taattctttg atc 133

<210> 31162

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-B12

<400> 31162

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tttttttttt tttttttttt tttttttttt ttaaaatcct ttatatcatt tttttatatt 120
aaaattttta ataaattttt cttttttttg caaaaaatta acatttatta ataattcata 180
tattttttta taaaattggt tataacttta attttttctt ttttaaaaaa aaaaatcttt 240
tctttttttt ataaaattaa aaaaattttt tattttttta ttaaataatt t 291

<210> 31163
 <211> 400
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-027-Q1-K1-B7

 <400> 31163

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 tcgtctaacc tggcttccgg catggcttcc aagcagatcg gagtcttgac ctgcttcatt 120
 gccatcaccg ctctcgctt cegtccttgc gcatccgccg tgcccatgga cgggtggctgg 180
 tcgaacggcg gcgccacctg gtacggccca gccaaagggcg ctggatccga cgggtggtgcg 240
 tgtgggtacc aggggtgccg cgaccagcct gcgttctcgt caatgatcac cgccggcagc 300
 caatccatct tccaagacgg caagggctgc cgcacctgct accaggtgaa gtgcaccgga 360
 cacgcgtcgt gctccggcag tccggtgaca gtggtcatca 400

<210> 31164
 <211> 334
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-027-Q1-K1-B8

 <400> 31164

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 ctgctccgtc tcccggggcg cagctctgac tccggacgcg ttacttgaag gcatccatgg 120
 cgcgctgct ctgctcccgg tcagcgggtcc tggcgcgccg tctcggggcc cagccccagc 180
 ccggcgtggt tctgagccgt cggcacaacc aactcgcgcg gcgcgcggtg aaggttcttg 240
 aagaggacgc cgcggggcct tctgcacctg cgacggacgc ctncgagcag tcccggcggt 300
 tggaggaggc gatcgacagc gccatggcgc ggat 334

<210> 31165
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-027-Q1-K1-C6

<400> 31165

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acaagttccg catgtcactg ggtctaccgg tggcggccac ggtgaactgc gcggacaaca 120

cgggcgccaa gaacctctac atcatctccg tcaagggcat caagggccgc ctcaaccgcc 180

tcccgccgc ctgtgtcggc gacatggtea tggccaccgt aaagaaggga aagcccgaacc 240

tcaggaagaa agtgatgccc gccgtcatcg tccgtcagcg caagccgtgg cgctcgcaagg 300

acgggtgtcta catgtacttc gaagataatg ctggagtgat tgtgaatccc aagggtgaga 360

tgaagggtc tgcaatcaca ggacctatcg gccgggaatg cgctgacctt tggcctagga 420

tc 422

<210> 31166

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-D3

<400> 31166

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agactgtggt gctgaagggt gtcattccact gccatggctg caagaagaag gtccggaagg 180

tgctcagggg catccaaggc gtgcaggacg tgacgggtga cgcctcgag cacaaggaga 240

ctgtgacggg caccgtggac gccgacacgc tcatcaagag gctgtacaag tccggcaaga 300

agggagtgcc ctggcagtgt caccgccccg ccaagaacag cgagcccgcg ccggaggccc 360

cgtcggctcc gcagcctgcc ggcgacggcg gcaaggatg 399

<210> 31167

<211> 72

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-D8

<400> 31167

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aagggaagaa ta

72

<210> 31168
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-D9

<400> 31168

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tgatgctcat atcttctgca gagaagacca aatcaaggat gaagttaagg ctgttttggga 120
attcatcaat tatgtttatg agatatttgg cttcaaatat gagttggagt tgtctacgag 180
accagagaag tatctaggtg aagttgaaac ttggaacaaa gctgagcaac aattgacaga 240
agctttaaat gagtttggga agccatggaa gattaatgaa ggggatgggtg ctttctacgg 300
cccaaaaatt gatattgggtg tgtttgatgc ccttaagagg aaatttcagt gtgcaaccct 360
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ccaaaattga aaggcctgtg atgatacaca aggcaat 457

<210> 31169
<211> 181
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-E2

<400> 31169

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aacggcagtt aactagctag ctagctagca gtcgtagaat gacgatgagg ggtctctctg 120
ttgcggtcgc tctggtcgtg gtggtggccg cggcctgcct tgccgcgccg cggggcgccg 180
a 181

<210> 31170
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-E7

<400> 31170

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tgcagttgaa tgatactatt acatcacact gtaaattgtg agccaagaat gtatcgtctt 120

gcatttggtg agaccgtaag agaaagggtta ttgtgactcg ttacttgtaa atacgtgcac 180

tgactgttca aagaaactaa gaaagacaag gtggagggtgc taccttccca ctacccaaaa 240

aaaaaaaaa aaaaaaaaaa ataaaaaaaaa aaaataaaaaa aaaataataa accaatttaa 300

aaataaaaaa aaaaacaaaa tatataaagt ttactctaata tat 343

<210> 31171

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-F5

<400> 31171

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gccgggagggc ttggggccgga gcatgttctt gacattacaa attagcccct agtcaccgga 120

aggcttggac cggaacatgg caaagcatgt ttctattgtt aagtttgaga tatgctcaag 180

cttagttggt attataaatt agcccctagt ggttggtgcc gccggcaaga tgatgatgta 240

ttgtttgagg tggagtttgc tattatgatg ctacaaagaa tttgtctcaa ggttgagttt 300

gtgatcatgt tccctattag tt 322

<210> 31172

<211> 352

<212> DNA

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<223> Clone ID: LIB3067-027-Q1-K1-G1

<400> 31172

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tgaagaaggg cggcaacagg ttcatacaaga ccgccgcata cggccacttt ggccgtgacg 120

acgccgactt cacctgggag gtggtcaagc ccctaaagaa ggcacccgct taagaatgta 180

ttgggaagtt cactggacat gaggttcac ttcgtctggc tctgctgata cctgcaagga 240

ttgctgctgc tgctgcctgc cctggatgtg tgtttgatca gtgactggct gctctgctcc 300
atagaagatg aatgaagaga gagatggtga agaaggcttt ggcaaattggc aa 352

<210> 31173
<211> 297
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-H3

<400> 31173

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ggctttgttt tggagtcaag ctcagggtga tgccactgtt aaagctactg ggggtgaaga 120
cacagatgtt atcgctcgag atatggcagg gtgctacgtt tcactagcat tatcgtttgt 180
aatttgattc acgctctttt gtacataaga attcatgatg ttataaggta aaaaaaaca 240
atgtgactaa ctaaaggatt aaccaacata tataaaaagg caaacaataa aggaaaa 297

<210> 31174
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-H4

<400> 31174

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gacatgatca tggattctgt gttagcatcc gattatttgt actcttgatt ctttggttcc 120
atgctctcta cggccatctc catgtcaatt tgctttgcca acaatataat atcagcgtgc 180
cgtgccctcg tggatttcca aatgggttata tgcataatga ctattgaaat tgtcatatca 240
gtttgcatac aataccaacg cgcctttgta gatttcacaa tggatatatc tggtt 294

<210> 31175
<211> 385
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-027-Q1-K1-H5

<400> 31175

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gtaacacgca aaacatctca tctgaaagag gccatcacca tgagacccca caaatgctta 120
attggcgggt gataaaaggc ggcctacctc cgттаатctg caagccagcc ttaccaccac 180
ttccaattcc aaaacaacca agcaaaacgc taccacacca accaggctaa caccagcacg 240
acaaaacccg cgctaatact aggcccaaac tactggtaat tccccagatc caaagcgaga 300
tgcaccattc ataaaaccat ggcgctntc ggcaagctcc gagtgagggt ggacgactct 360
accacgacca acggaaaact actac 385
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<210> 31176
 <211> 244
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-E10

<400> 31176

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tctgtggatg attcaagtta cagaattcta aggcaaaatt ggtttacaag aaccacatta 120
ttacagtaca gcccttgttt gtaattccta agattctttt gtttcttcag gtgcagctcg 180
cctcgctgtc ataaaggcaa agcatatctt ctcttctgct cagctcctag ccatggtcag 240
atgc 244
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<210> 31177
 <211> 287
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-E12

<400> 31177

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tgaagtgatg ctgttttagtt gtagtggtg tcgcttcttc ggcacttata cttaccccca 120
agcatcaacg ctgcctgttt taaatctcaa taggtgctgt tttaaattctc agatctcaat 180
atatgactac tgatcgctga atagatttca tgctctcttg attgactgca taaaaaaaag 240
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actgcacctt gcctacaggg aggaaggact ggcgaaggag aacgcca

287

<210> 31178

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-F12

<400> 31178

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tgtgcatttg gcgtcgggct gactacttat gacaaggcct cggatgaatca ctatgtgcat 120

tcacacatac agatgaatga atatcgagat tgggttagacc tgcgggctgc atcaatgaag 180

tttgctagac agattaatac ctgcttgaac gttatggata tgactggact caagctgtat 240

gcactgagcc aaataaagat gctgacgatg attactactg acgatgacct gtattatcct 300

gagaaaacgg aaactgatta cattgctaatt gctccatatg tattttcagc gtgttg 356

<210> 31179

<211> 221

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-F6

<400> 31179

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gtaactttgt tgcggccatt gttgtcgtga ctctggccat agatcctttt atgtacatgc 120

gaaatgtaac caagggatat ggaataagaa catgttcac cgtttgtaga cagcatggtg 180

gtacaggaat tctttttatt tttcatagtt gattgggtgat g 221

<210> 31180

<211> 129

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-H2

<400> 31180

cagacgcgtg ggcggactca tgggttaccg ttgcgttggc gacaatgttg ggaacagatt 60

taaattggag tttatgcttg ccatctactc aaaaaaaaaa gaagcaaata aaaaaaaaaa 120
 aaaaaaaca 129

<210> 31181
 <211> 175
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-A10

<400> 31181

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 agaaaaaata aaataataag ggccgcccgt tctaaagctt ccaactttac cgtctcttgc 120
 ctgctaaatc atatctcttc tatagcgtct ccttacttca attcactgac caccc 175

<210> 31182
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-C5

<400> 31182

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 tagtgtcacc taatttcatt ttcttgtcct ttgttttaca tcttcattcc tggtaaacc 240
 ttgttgttcc ccatcttaat ccctttgcag cacttccctt ttttccatt tggcttatta 300
 cctaagaggc ccgctctatt cgcttttca aacatttgc caccctgatt gccattgga 360
 actccccttt tatcgccgct ttaatcgcgct ttgctttggt gg 402

<210> 31183
 <211> 53
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-D2

<400> 31183

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53

<210> 31184
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-D6

<400> 31184

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aattacttac ctggatattg cttccttaga gcaactatag cagttttggg ggttgattct 120
aagaaatgag tccatcaggg ctgcaaacc cttgtctcct gagtcctgtt gagggctgag 180
gagcctactg ttggtagctt agacgagctt aaaggaacca agcctggcaa ggcttgaggt 240
cgtagaacat gtaagtcaag aagggtgaagg ggatcatgta aaagagcttg acaacctgca 300
cattctatgt gtttgaaata cccactctgc ctattgccat ccaatgtttt tcagagttct 360
gcatgttaac catcgaaagc aacttgata tgaaaacgca taaagcttgc aggtggtaga 420
ctaaccgtaa ggagtcgact ttggggatga ccattaatac c 461

<210> 31185
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-F1

<400> 31185

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gtttggtggg aaatggggag agaaactgga tgctgcttta gttacagaca tgggtcggtta 180
taggaaatat aactttgagt ctactcgtga tcttctgagg tatatcagaa ataaatcggg 240
tcattacaga gaactttcag atgatctcaa gggcatactt gggtcattgc cagagggatt 300
tgatcactat tttgctagcc gatttccaaa gttgctaatt gaggtgtaca aggtcttggt 360
ggtgcactgc aaggacgaag aagctttcag taaacatttc aatggaagct ccttatagct 420
ggag 424

<210> 31186
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-029-Q1-K1-F3

<400> 31186

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 aactaatcga agtcagcatc tgcattatta tgcgttatga ctaatttatg gaaggcaggc 180
 tggtcgccag gtctatgtat gatgtatccc atacacggat gatgtgcaa aaggctttcg 240
 tctgacctgc agctgcttct ggaatctgca tctgtacaat tgtaccattg ttacccttgg 300
 ccttgtagct gcaaagcagt ttgttgtaac aattaaatga ggcgccggat cctcacgcca 360
 tcgaaagttt gaaacagctn tgggttgta tggtagttcc aagacttggt gattataatg 420
 tgcgcatttt ctga 435

<210> 31187
 <211> 208
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-029-Q1-K1-F4

<400> 31187

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 aggaaggaaa aaaccaaaga aaaagacact cataaaaaat aaaaaaaaaa ataaaaaaaa 120
 aggggcctcc tttctatagg acccatgctt ccttaccctt gcttactaat tgataactct 180
 cctattgggt cacctaattt cagttcct 208

<210> 31188
 <211> 400
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-029-Q1-K1-H12

 <400> 31188

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 gcaagattgg gttcgacctt gattatgatg agaaagacac aagctataac aggatcaaga 180
 tccttgtgac tgaggagttg aagcattact tccggccaga gttcttgaac agattggatg 240
 agatgattgt attacggcag ctgactaaat cggagggtgaa agagattgca gacattatgc 300
 tgaaagaagt gtttgacagg ctgaacgcct aggacattaa tctccagggtg accgggaagt 360
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<210> 31189
 <211> 366
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-B12

<400> 31189

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 cggacacgac ggcagcgtct gggcacagtc cgtgaacttc cacgagttaa agcctgacga 180
 ggttgctggg atgataaagg acttcgatga acctggaact cttgcaccaa ctggtcttta 240
 tgttggaagt acgaagttca tggatgatcca aggtgaacct ggagctgtca tccgaggaaa 300
 caagggcact ggaagcatta ctgtcgagaa aactggcaag tacctgatta tcggtatcta 360
 tgacga 366

<210> 31190
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-C12

<400> 31190

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 cggccacgac ggcagcgtct gggcacagtc cgagaacttc cccgagttaa agcctgagga 180

ggttgctggg atgataaagg acttcgatga acctggaact cttgcaccaa ctggtctttt 240
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 gaagggcact ggaggcatta ctatcaagaa aactggcatg tccttgatta tcggtatcta 360
 tgatgagcca atgactccag ggcaatgcaa tatggtggtg gagaggcttt cgcgatacct 420
 gatcgaaca 429

<210> 31191
 <211> 72
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-C2

<400> 31191

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 aaaaaagaga aa 72

<210> 31192
 <211> 77
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-D1

<400> 31192

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 aaaaaaaaaa gaaaaat 77

<210> 31193
 <211> 270
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-E12

<400> 31193

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 ggaccaacgg tagcgctcta ctgagacaca gtcctacgaa gatctctatg acaacctctg 180

cgactgcggc gattggaccc gcagccgcta cacggccccc gtccacgtgg actacgagaa 240
ggcggacgat catcggcaag ccccgcaagc 270

<210> 31194
<211> 151
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-F10

<400> 31194

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atatgcacct gtgcttgctt tccttcggga cggagctgat tggttaatgt tcatcgaaga 120
cgttgatttg cttgccaaaa aagctagcaa c 151

<210> 31195
<211> 96
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-F12

<400> 31195

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gaaaaggaaa aaaaaaaaaa aaaaaaata agacaa 96

<210> 31196
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-F3

<400> 31196

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tggtcgaggt ccaaggggtg taagccgtgg cggttttaga gggctaggat ggttctaggt 180
gcagtttgag tttgatgatg ttttccccctt gaagcatcat agctgcacaa ttggaaactt 240
ccatgttatt gtaaccagat atgtttaaag tagcagagca ctttatctgt ggaacttgga 300

ttctcaactg acacaaacgg cttgtacctg tttcgtttcc aatggcacat aa

352

<210> 31197

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-H8

<400> 31197

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gtgatgacac gctctagtgg agaccattac tgcattatcc tggtcctact acacatatat 120

ggctagccta tgaactactg tacctagata atttctgaca agcaggtgca cgagaaccac 180

tgaaccgatg gtcggtatgc acagctcggg tacgagatcc gctcgacaac tgtgcatgac 240

aagatgatgg aaatgtggaa aagcaatttc attgtgaaaa cggctctctag atcgaagacg 300

gatgtgaaat atcatgatac tagcatacat ctgtacatga tggacctgaa ggcaccattg 360

atccctgagg ttgaggctgt cgactatggg aactactaag aag 403

<210> 31198

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-D11

<400> 31198

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gagggagacg actattgagt agctggctaa taagtagttc tctggtgggtt aatgggttggg 180

ttattttgag tatatactct atggttccac tccattggat actgctgctg cgtgtgtttc 240

cattttgtac tatgtagtaa attgttcgta gccccctaaa aataacttga ccggataatg 300

<210> 31199

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-D5

<400> 31199

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agcatattcc tccaatgaca gagcttacct atgattatgg ccagaaccag cgtaatagta 120

ttcaaatggg aacccattct ggttttcgga agtctaaaag ttgcttatgt tgggtccccga 180

agtgtagagg ttcctttggc taataaccag ccctataagg aatatattgg atcataatac 240

tccatttcaa agttacacct aagatatctg ctggctgact tttatattca gctcccaaaa 300

atctgtcaca agtttgtgag agcaactgaa ttgtctttac cagcagaagc agcccgtcat 360

ggtggcctgt atgaatcagc acgggtcttc ttatgtccta agagttccat gcaccatcga 420

ataaa 425

<210> 31200

<211> 82

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-E1

<400> 31200

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gaaagggttaa aaatggaaaa ag 82

<210> 31201

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-E6

<400> 31201

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gtttgtcgtg ttcactcaaa cgataaaagc aaattcaagt tgctatatatt tgagcttgaa 120

gaaaatggcg ggcttagtct tgcactacag gaagacagtg tgaaggttgg gaaagttact 180

gctgcaggga tgtatttctt tggttttcct gtgtaccgtt ttgaacaaaa taacctggca 240

gctgctgcaa aagattctga tgggtgcattc tttaaaagat tggatagctt tcagccatgt 300

gacatacatg aactgaaacc tggaacacac ttctttgctg tctacggtga caacttcttc 360

aagagcgcta gttatactat agaggttgta tgtggtgaat cttttcctgc cgaaaaggag 420
atgctacgaa atgtggaggc caagatactc acaaaacgag c 461

<210> 31202
<211> 250
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-F3

<400> 31202

ttttggtttg gtttttttaa aaaaaataaa ccgctttatt tgatatccgt catttcaacg 60
taccaaata atagaaagat ggccttgctg cgctcgtgct tgagtgcacg tttggtggtt 120
atactcgatc gatccattca gaaattactt gacacaggta tatattaaaa aacacacaca 180
ttcaggaata cggggcaaac gatggaaatc taaagaatcc gatgaaaggg tatggaatat 240
atatttcac 250

<210> 31203
<211> 72
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-F8

<400> 31203

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gacagggggcg 60
gtcgaatgtc aa 72

<210> 31204
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-A2

<400> 31204

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ctgcaagagt aggagccaa aatggagtcc aaatgttgag cccctcggaa atcccacaaa 120
gggactgggt cccctctgac ttcaccttcg gagccgccac ttcagcgtac caaattgaac 180

gtgctcggaa tgaagatgga aaggggggaaa gcaactggga tcacttctgc cacaatcatc 240
 cggaaggat actggacagg agcaattcag acattggagc gaattcgtac catatgtaca 300
 aaacggacgt cagattgct 319

<210> 31205
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-B10

<400> 31205

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 acccaagctc ctgagcctca gacaccggat cagcagcgat caaatggcga aagcacaacc 120
 agcgagggag ctgcagagga gcctccagcc gagcagatgg agacagacaa acctgagggga 180
 gccacagatc cctcggctta gctttgcagg tgatggaaca tttgtgtgat tgaccttata 240
 cttggttggg ggtgaactaa gcaagatggg tggtcgccac atttgagaat gtgtgttggg 300
 acgttttttc gttatttctg tttcttgacg gaggtggttg gatggttgaa ggatgagagc 360
 agtaggttac acttcgtaaa tggcgattcc g 391

<210> 31206
 <211> 317
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-B2

<400> 31206

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 agggactacc aggattatct caagttgagg acaagggtcg aattccttca aactacacaa 120
 agaaatattc ttggcgagga tctgggtccg cttagcatga atgatctaga gcagctggag 180
 gaccatatag agatatctct gaagcatatc agctcaagaa agaatcaaata gctacttgac 240
 cagctatttg atctcaaaag catggaacaa gaatagctgg atctcaataa agacctaagg 300
 aagcagctgc aagaaac 317

<210> 31207
 <211> 285
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-032-Q1-K1-E3

 <400> 31207

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 ggcgcggatg tagaccctcg ccgctgaaag aaacgatggg aagcccattg tattaagtta 120
 agccgggctg tgccgtgaaa ctttgggacg atgctcgagg ggacagaaac tggaaacgat 180
 ccggctgagg atatttcgat ttggtttatg tgaattccat ctcgtacata tttgaaatca 240
 agttgggatg ctgggagctt cgaatgtaaa aaaaaaaca caaca 285

<210> 31208
 <211> 314
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-032-Q1-K1-G7

 <400> 31208

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 tggcatacaa ggacgaccgc acgatcatgg cgtgggagct gatgaacgag ccgcgttgcc 120
 agtccgacgt gtcggggccac gccatccagt cgtggatcac ggagatggcg gcgcacgtga 180
 agtccatcga cgggaaccac ctgctggagg ccggcctgga gggcttctac ggcgcgctcg 240
 cggcccgcag gtccgcgaac ccgtcggggg accaggtggg caccgacttc atcgccaaca 300
 accgggcgcc cggg 314

<210> 31209
 <211> 238
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-032-Q1-K1-H3

 <400> 31209

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gctatagatc gcggctgtct gaaattccca tgatagaact aacatataaa catggatatt 120
 caacacagga tagtacagtt acacctccaa aattcatttc ccgaagcgag cacatagaca 180
 ttcagattac atatctacct gcaggacaat gcactgaacg tgcataataca gaatcacc 238

<210> 31210
 <211> 394
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-033-Q1-K1-A2

<400> 31210

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 tatccagcag cacatgaggc tcgaaaagaa caagcatgaa aatttgagca aaccgtatgg 120
 aaacacctct ctctctcca tacaacacta gcacctagaa ggttctggga caccttaata 180
 taggcattgcc atcatttgca aagcggttctt ggcaactcgtc actcgatcag ttctcacctg 240
 gctggtggcg tcgggggagg catgcttgct cttgccaatc caaccaagc aacaatgccg 300
 gcgccaagga tcacccatcc aaaaacatcg taccagaagt cattgtcctt cttcttcctt 360
 gattgcctng gatttgaggc tgaggatgct tgtg 394

<210> 31211
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-B1

<400> 31211

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 tgggccggat cgtccagcac tggctgcacg ccggagaacc tgaccggttc tacgaccgcg 120
 tgagcgacta tgtcactactg ccaacactct acgaaatcga gaagcatcgt gagaaacacg 180
 gggatgtcac gtcagtagcg gaggactggg agatcatctg cccgaacgac ggcaagacca 240
 tgaggccagg cgagtttctt cctatgggtca gcacactgac cactgagcctg gaaggcaagg 300
 aggggtgact ggaagaggcg caagccactg tggtcgttca cccggagaag aaggggctgc 360
 agcatgtgca agttagggct gtgggtgtca gtcattggtg gctaagccgt atgagccact 420

ttggttg

427

<210> 31212
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-B5

<400> 31212

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ggttccttac taacgaaaca catgcatgcg acttcaataa atcttctata gtgttaccta 120
aacttaattc actgtcccta gctttacaac ttcaacactg gtaaaactcc tactttaccc 180
aacctaattc ccttgcaacta catcctcatt tcccttgctg gctgtatagc aatgacgcct 240
agacctttcg cccctttccaa cagttgctca tcttcaatgt caaatggtag tcgccctgta 300
tctgtgcatt aacattcggc gctgtcggtt tttcgctcta tttgaccgtt acatttgcca 360
tttccatttc tcttgtcctt ttttctttct ttcttttctt ttttctcact ttctcctatc 420
tttttctttt catgctttaa atttt 445

<210> 31213
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-C5

<400> 31213

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gtatgtact acagacagag accagcagag gccactgtca cgctccattt cgactgcgga 120
ggaaccgttt ttgagactcg tgagatggcc agagagttca ggttggtgcc gtcgccgaag 180
ccagagacca gtgccccggc tgagcgaagg ccccgtagct taacgcgttg gcgccgcctt 240
tctcgtcgtc cgtgtccac aggaacgcgg ttttcgctgc tagcacctgg ctgttcttcg 300
gggaccctt ggccgcccgc tcgaagtatc ttga 334

<210> 31214
<211> 62

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-033-Q1-K1-C8
 <400> 31214
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 ag 62

<210> 31215
 <211> 403
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-033-Q1-K1-D9
 <400> 31215
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 tcataggtgt agcttacagc accgatcaac ttgaaaccaa aaccaaagaa agaaaaaatc 120
 acaggtggtc tgggtgattt gcaatgcctc aaagggttatc gtcgatcagg cctacaggaa 180
 gtttcggatg tccagtttcc tgacatcagg catctgctaa tcttggaact cctccctctt 240
 gagtcgagtc tccattgcct caacacattc cttcttaagt tcagtcagct cacttttggc 300
 aatctccaat tcaagttctt tctcgatctt aggaagatcc tacttacgaa tgccaagcta 360
 tgcgttaatc ttgtcaaact ctgccataag ggtggccatg ttc 403

<210> 31216
 <211> 365
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-033-Q1-K1-E9
 <400> 31216
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 ttttctccta tattacagat attcaaactg tactatggac tctgtaagaa tgagcaataa 120
 actaagcaga cagaagttaa aaatagaagt aacagaaatt taaaagtggc gccgttgccg 180
 gggatcccgg gtcgcccgcg tgacaggcgg gagtctcacc actgtaacga ctgggatgcc 240
 taggggttag tggatgtatt gttccacgac taatgttttag tattggaagt atgatatata 300

gtgtaattat aaaactaatc gtatgaagga ggaaagataa acgaattgat caagtctaaa 360
aactt 365

<210> 31217
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-G10

<400> 31217

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agaagcagaa acacttgtaa aacagtggca agacataaaa tctgaagctc ttggccctga 120
ctatcaaact gacatgctac ctgagattct tgatggttca atgctctcta agtgggaaga 180
cttagcgta ttagcaaagg accagtcttg ctattggaga tttgtgctgc taaatcttaa 240
tgttgttcga gccgagataa tcttgatga aataggtgct ggtgaggcag cagaaattga 300
tgctgtactt gaggaagcgg ctgagcttgt tgacgattcc cagcccaaga aaccgagtta 360
ttacagcaca tatgaagttc agtacgtatt gaagaggcag aatgatggat cttggaaaa 419

<210> 31218
<211> 51
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-G8

<400> 31218

aaagaaaaaa aaaaaaaaaa aaaaataaat taaaaaaaaa aaaaaaaaaa a 51

<210> 31219
<211> 97
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-H1

<400> 31219

aaagaaaaaa aaaaaaaaaa aaaaaaaaaat tataaaaaaa aaaaaaaaaa aaaaaaaaaa 60
cagaagggtt taaaaaaaaa aaaaaaaaaa aacaaaaa 97

<210> 31220
 <211> 55
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-H2

<400> 31220

aacaccaaaa ctcaaataaa gggccaccta aatccaattc actgcccgcac aaacc 55

<210> 31221
 <211> 396
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-H4

<400> 31221

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 tcatcgttga tcaacaaagc aagttgcaag cggtgaaagc gactgcgccg gtgtctctgt 120
 ccggctagct caagctcctc gctcctgcgg ctacaagtag gaccatgaca gggagagatg 180
 aaagctccga ccgtagttcg gcgtgcttgt tggtgggaac accggctcta ctagctgctc 240
 ttagaactgc tgctcacttc tggataaatt atcagttaat tagtatgttt gtatgtgaca 300
 tgagtgtaga tataatttct cactcaaata atgtcactat gtaattatgt tgatgctata 360
 aacttaatat atattaatgt ttgaattaag gcattc 396

<210> 31222
 <211> 447
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-H8

<400> 31222

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 accaacacat tcctgggcta gcaactggtg tggagaagac aagaacaagt gccttaacga 180
 aacagagccg atctacaaaa ccggatacaa agctgcaact acagactaca gcttgatggc 240

caaagctaag cactactttc gaacattgga gccgaaaggc atacatgttc agatactgaa 300
catcaccgag ctgtctgact accgcaagga cgggcatect acggtgtaca ggaaacagtt 360
tgctcctctg acgaaagagc aaatcgaga cccagccagt tacgcggatt gcacgcactg 420
gttgctccc ggagttccag atgtctg 447

<210> 31223
<211> 130
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-A12

<400> 31223

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gagaaaccaa gcaaacatac acgagcatgc aacctcaca cctactaat agcgacacca 120
aaacacaaca 130

<210> 31224
<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-C1

<400> 31224

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ctacaccaag taggtaaaaa caagtttgcg gctgcctgcc gccataccat gccatactct 120
ggccggtata gctgcagcag attgtatata agggaaaaaa aagaagatac acatacagta 180
cgaagaaggc aaatgaaatg ccgttcgggc ggtagcctag gcgtgtacag ctgacgcaga 240
cagaccccg cttgggcggg agcctaagcg tgtacagctg acgcgcagac agacc 295

<210> 31225
<211> 235
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-034-Q1-K1-C2

<400> 31225

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aaaagccgaa gccgaccgac ccaggggtgc gcagcgcaat gcaactagca tccagctctc 120

tctccccgga ccgttcgccg acgttttagtt tctattgtgc acgtgcatgc atcgtagact 180

gtttcaggcc gacgctgcgc cggcgccggt cgcattgggt gcttttactt ggacc 235

<210> 31226

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-E2

<400> 31226

tcacaaccaa ggagcttggg actgtcatgc gttcactggg tcagaacca acggacgctg 60

ggctacaaga catgatcaat gaggttgatg cccactgcaa tggcacgata gacttaccg 120

agtttctcaa cctcatggcc cgcaagatga aggacaccga ctcttaggag gaactcaagg 180

aggcggtcac ggcgttcgac acggaccaga acagattgat atctgccgcg gagctgcgac 240

acgtgatgac caacctatgc cagaagctga cactcgagga agtacacgag atgata 296

<210> 31227

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-E5

<400> 31227

tgttccgtct atccggaacc ggttctgttg gtgccaccat ccgtgtctac atcgagcgg 60

acgagaagga ttctccaag accggcaggg attcacagga ggcccttgct ccaactggtg 120

atgttgcgct caagctctcc aagatgcaag agtacactgg ccgctctgcc cccaccgtta 180

tcacataaat ttttgaagag tgatttataa tgagttgagg cgcttacaca aattttcatt 240

caagcctctt gttctatagt tctacttctt gttgcatctc accaatgaat aaaatgtatg 300

tatcagactc gccccgtttt tttttttgtc catgtactgc aatgcagcgg actgaaccgg 360

tggcacagca tgcggttaata atcttgtcac aatgacagtg ctgtaatcgg gagcgtgttt 420

cttgtaatct tgtaggaag tgtttctggt

450

<210> 31228

<211> 66

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-F4

<400> 31228

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aagaaa 66

<210> 31229

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-F6

<400> 31229

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atgaagtacg taccaacagt gaatagaagc acgttgtgga gttagctagg cagcaatggc 120

agcatttgtt tttaactgag catgcatact ggagaggtgg gcaaagacca aaggagcatg 180

catactggag aggtgggcaa aagatcaaag agccatttga atctatcggt gtgacattgt 240

ctaccattct gatgcattgc aaccttctct ttctgttgta tcctagttac atactgcact 300

attatgtgga tggtgtgttg ggggctcggt gcaaattggt ggatttcagg atctgttctt 360

gtagactgc acttgtttat aaagtagcgt ttg 393

<210> 31230

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-G10

<400> 31230

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gaagagaata tagaacaaga caactcacta tagggatcta ttttcaatag taaaagaatt 120

attctaagaa gacctattat ggtcttgaat tatgtcatta attctatgta atttgcata 180
 acttcaagaa tatcattgta gttatgtcca aataagtcca tatatgtgag atccatatga 240
 tggacgctat tttatccgct taatatcata ttgcatccat atatatagat atcaaagtgt 300
 aaaaagggtg acctaattcta aaaaagaaaa gacctggtaa aac 343

<210> 31231
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-H6

<400> 31231

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 tccccgcgctc acgagctccc gccggaagtg ccgcaaggcg cactttacgg ccccgctctc 180
 cgtccgccgc gttctcatgt ccgccgggct gtcgacggag ctccgccaca agtacaacgt 240
 gcgctccatc ccgatccgca aggacgacga ggtgcaggtc gtgcgcggca cctacaaggg 300
 ccgcgagggg aaggtggtgc aggtctaccg ccgccgctgg gtcattccacg tcgagcggat 360
 caccgcgag aaggtgaacg gctccaccgt gaacgtggg 399

<210> 31232
 <211> 450
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-A5

<400> 31232

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 aagtctaaag atgaagagtt taaagatatg aaggataagg tcctacgcag ctatgctgag 180
 atggagaatg tccttgccag aacaaagcgt gagtcagaga acaccaagaa gtatgccata 240
 cagagcttct ccaagagctt gttagatggt gcagacaatt tgtctcgggc atcatctgtt 300
 gtcaaggcaa gtttctcaaa gatagattca tctaacgatt ctgatgaagc tgtaacacta 360

ctgaaaaccc tactagaggg tgttgagatg actgagaagc aacttggaga ggtctttaag 420
aagtttggag ttgaaaagtt tgatcctttg 450

<210> 31233
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-B6

<400> 31233

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gtaatgtctt gtagtgggcc gtttaggcgg ttagtcatg ggaacgcgac ctgagatacc 120
tggtttcttt tgattgtgat gttatcttgc attattgcac ctgtaggatt tgttgaagct 180
catattttcc agggttttgg atcttttgtg ctagtcttgt gtctttgtgt atgcagaggc 240
tgagctagga ttatggtatg taaggagacc aactaattca tcaatactat atgatgttat 300
caaaaaaaaa ataaataaat ttaataaaat tttatataaa aattttaata aattaattat 360
ataataa 367

<210> 31234
<211> 144
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-035-Q1-K1-C1

<400> 31234

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ggccgatatg tgtaatagga ggctccatcg aacatcgatg gcttgcttct ttatcagaac 120
atgtttgaat aaacgctatt tggt 144

<210> 31235
<211> 126
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-C10

<400> 31235

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 aggcgggctt acatacacgt ccatgcgaca tgcgtggctc ttctatagtg ccacctattt 120
 ccaact 126

<210> 31236
 <211> 356
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-E11

<400> 31236

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 cgtgtgggcg aacaagccgt cgtggaggag agagatgcaa gaagagagaa aatagagcag 120
 ggcttcagct acgcgattgc tgggtcaagaa caggtaccac aggatgaggc gcatggagga 180
 tgctgtgcga gttcgtgaga ggtctaggcc gtcgtctccc agtcaacttt gggttgctgg 240
 accgttgtct ccttataatg taatcatgta ttacgtatag aactcctgct atgtagtaaa 300
 gatgtgacat ttgatcctgt gccatgattc atcatatgtg tgaaaaaac aataac 356

<210> 31237
 <211> 191
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-E7

<400> 31237

ggttcaggtg atacatacga aaagccgaac ttctgtgtcg agaagaggca taaggattta 60
 gctatactga ccattgcagg aaaaaactgc ctgcgttatc aattataaaa tttcacagat 120
 cagacatgaa ggtaaagaca tgaccgaagt gtttgaaatc acagtcatca agaaaagaaa 180
 aaaatgatac t 191

<210> 31238
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-F12

<400> 31238
tccactcgtc cgggtgagggc agctcaaccc gtggcagtat actgcagata tcccgtgat 60
ggcaaatttg gaggtttggt ttcaaaggcc taaggacatt gttcgtaaac ttcagtcagg 120
cgatcttgac cttggtgttg tgggttttga catagttagt gaattcggaa tctgcaatga 180
agatttagtg gttgttcattg atgctcttga gtttgacat tgcgtttgt cccttgcggt 240
acctaaggaa ggcattcttg agaacatata tactatggaa gatttgctaa agatgtctga 300
atggacagaa gaaagggcac tacgtgttgt tactggattt ggatatctaa gcgataagtt 360
cttaagagag aaagggtttt aagcatgttc gt 392

<210> 31239
<211> 434
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3067-036-Q1-K1-A11

<400> 31239
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aagagcacct acaagatatc gtaacacatt ggaacgctcc ggcatttgga atagcaactc 120
tacaatcggc agcgcaacgc ttgcaacatt tcgtgttttg ccgaaaagat gcaaaagaaa 180
aaagaacagg gaaagtccgt tggaccgcat gcatattccg atacattcca tccgaataat 240
atacagagca ctaacggtaa ggatcaagct tttgctggcc atgtcgcttg agatgacata 300
atgatgcca caatgactcc gaacagtccc agagcgctgc cgaagatctc aatcaccaaa 360
atctttacaa agagtgatga gttctgagca tcagacagtg cacagctgct tncgattatc 420
cccacacata cccc 434

<210> 31240
<211> 65
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-036-Q1-K1-B5
<400> 31240

aaaaaaaaa aaaaaaaaaa aaaattagaa aaaaaagaaa aaaaaaaaaa aaaaagggaa 60
agggt 65

<210> 31241
<211> 332
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-B8

<400> 31241

aagcaatgtg ttagctcctc gccagaggag aggccgacaa tgcacagggt ggtacagatg 60
gtggagtcgg atgtaattac accgtgccct agcgacttct atgattcaga gtagtctcct 120
ggacaagcca cgctgctgct agtttcccgt gggggcgcat tcctttattc tttgcgtata 180
ttgtgtaaat gcattgccgc ggtgtttggt ctccaatcgg ctggctcaac gggtgactct 240
tttttgcgtc tgtataccta tgtatgtatc tgtcatgcta caagttggct atatgctgat 300
ttaataataa gagagaacta gaacttacta gt 332

<210> 31242
<211> 102
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-C1

<400> 31242

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa attaaaaata aaacaacaac aaaaaaaaaa 60
aaggaaaagg aaaaaaaaaa aaaaaaaaaac aaaaaataaa aa 102

<210> 31243
<211> 306
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-C7

<400> 31243

cccacgcgtc cgggaggatt ccttctcttc tcatgtgtgt tgctcttgga ctacctgaag 60
gaattcgaga agtacctgct tgctcagagg caccgagctg gagatgatgg cggcaacggg 120

ctgttgcagg catgattgct ttccgctggt ctactggca ctagcagcta ctagtttctg 180
atctgaagtg cttccttttg aacataacat gtgtctctgg gttaaaatcc aactgcaatt 240
gattgttctg agaacttgct ctgccaaaaa aaaatgtaat gtattatatt acgaaaaatt 300
tataaa 306

<210> 31244
<211> 160
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-036-Q1-K1-D4

<400> 31244

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cagcatggct tgttggtgta ttctgttttt tcttctattc taaataatct gattgttgta 120
tccaatactg tacttttttag cttaagaaag aaatacttta 160

<210> 31245
<211> 185
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-F11

<400> 31245

tgattagtaa cactaatcta gagaactgaa tttaaacatt ttaaaactag taacacgcat 60
agggatctgg tgacattcat tgtgcacctg taattatttc attacctata actatattca 120
acctcatatg gtctaatttt acgactttct tcacatcttc ttttcaatca tatcattttt 180
aaatt 185

<210> 31246
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-F8

<400> 31246

taacaagttt ggatacagag ggccgctacc ttctgttgaa tgcaatcgct aaccaactgc 60

gctatccaaa tagccatata cactactact ccttcatcac tctgtatcta ttttccgagg 120
ctaccagga aattaccag gatcaaatca caagggttct tcttagcgt ctcatagtga 180
accgtcctca tccttggggg ttacttatta ctttcattga attgataaag aatccgtggt 240
acaacttttg gagccgtct gttacacact gtgcacctga gatcgagaaa ctgttcgagt 300
cgggtggcaag gtcatgtggc gcaaaagttg tggacgaagg aatcagcgtg catgatggca 360
gccactaaag ccatctgctt tgttcaagtg ttggttttga gctatttctt ctcttgcact 420
gaaaatttct gggcttgtac agatcgtctg tatagtaaa 459

<210> 31247
<211> 395
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-036-Q1-K1-G6

<400> 31247

aagaagagga ataaccctgg agttgagctg gcaactcgaat tctttcatgc attgtgagcg 60
caggatctga tttgagtggg tctctcgggtg agttctcgcg agcagcaagt tttgcaacct 120
gtaattgcct gtacatcaac acaacacaat tttgtcccta accgcaactg gtggagagta 180
gcaaggagcg atttggcgtg aatgaaccaa aatgatccca gtgtagatga catgctataa 240
ctgtgctatc tttgcttggg tgacgcttgg gcgaagtctt cgccacattt gtttaactgg 300
ccatcacctg tttcttggca cccatccggc actcgcacag atctttaata aaagcttgtt 360
tagataaaaa aaaaanaaat atattatttt aataa 395

<210> 31248
<211> 183
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-A2

<400> 31248

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aattaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaagagaa ataaaaaaaa aaaaaagggc catcccttct ttaggaatcc aaacttactt 120

accctttctt ccaacaatat aactctttta tattgtcccc taaattcatt tcaactggcct 180
ggt 183

<210> 31249
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-B8

<400> 31249

ggagaattct attaagtctc ccttcatttt cgcttgagaa acaatccaag ataattatgg 60
cgggtatgac attgcataac ttcattagag atagtgtctt acacgataga gattttgatg 120
aagtaggagc taatagccta agtcatgatg tacctgcagg tgagagtagt actagtacat 180
ctgatgagtt agacatgagt gattttcaag atgcaattgc taatgcatta gtgtcgtagt 240
taacttagtg attgtaacag aacttatgat gtaatcaact ccactaatta ttgtgtaaaa 300
aaaaaatata gtataatgaa gatagtataa gcaatatatg aactaaaat 349

<210> 31250
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-D2

<400> 31250

actaattatg gagtgcctat tatccattgc ttatttatta caagctaaac ttggtcgtac 60
aatacttaac ttgtatagtt aaacacacca ccgtatacta ctagcctact aacttggacc 120
gtttaccgta aaccgtttta ctagctaaat ccccgatgga tccatcggcg gtgaatttcc 180
cctaccccct gattagtcgt cgtcgttgc cggatcattc ccgcaggaac aactttaccc 240
gggcaacggt tttgcaaccc gttaaaatgc tcgcccggac caacgccagg tacatttgggt 300
ccattgcttg gttgaatgcc tttaacaata ccccttcgg gtaccccggg ttactccgt 360
aagttt 366

<210> 31251
<211> 365
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-E12

<400> 31251

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caggatggga gttgaagatt ttgaacttct gactattatt gggagaggtg catttggaga 120

ggtgcgtctt tgtagagaga agacatctaa gaatgtttac gcaatgaaaa aactcaagaa 180

atctgaaatg cttcgtaggg gccaggtaga acatgtcaaa gctgaaagga accttcttgc 240

tgaagttgat agtgcttaca tagttaagct ctattattct ttccaagacg aagagttctt 300

atatctcatc atggaatacc ttcttggcgg ggacatgatg actttactta tgcgcaagga 360

catac 365

<210> 31252

<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-E4

<400> 31252

gctgctgcta cggctaaccg aagaaaacaa cgatatctcc gcgtaccgga tggcatcgtc 60

cgatggttta taggtagctt atgtcatagg gtttaggata actggtagca tgtgataacc 120

tttgattctt tctagtccac gcttctctga tttgccgttg agccgaaacg atgtattcta 180

tgctcgacgt gctataatag attacagcaa ttatgattat ttactttacc tgttcaatat 240

tagtggaaaa ggacgaaaag ggtaaactca aaaaaaaaaa aaaatat 287

<210> 31253

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-H11

<400> 31253

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tttgtgtgtt agtcctagta ccgagatgta actttgttct ctggaataag tggattaata 120

aagggcactt tcgtttgtgt gtcgtcctga gctgccttgt ccgtagattc ttacaaactg 180
 ttctgtgcga aagctaccat gatagatatg cgtcgtcgcg tcgaattgat tgattctata 240
 gcctgataat tgattgagta tcgcccattgt cgcacaggag aacgataaat ttgttccaaa 300
 ctaaaggggc atgacgactg ggaaatcaaa gatccaagcc aaattccccg ttgtagaacg 360
 a 361

<210> 31254
 <211> 178
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-B12

<400> 31254

gcgcagacgc gtgggtcggc cttgtacggg ttcacaaaca ttgatgtttt caaataactg 60
 tggttgatcg ggatacttta cgggtgaattc atgagattaa atctgcaaag cactttaact 120
 ctgctgttct atcgactttt taattccaac ctacatcaac ttgctcagga aactcaac 178

<210> 31255
 <211> 85
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-B5

<400> 31255

cggacgcgtg ggcggacgcg tgggcggatt cttgggcgga cgcgtgggaa aaaaaaaggg 60
 gagaatttaa aaaaaaaaaa aaaca 85

<210> 31256
 <211> 394
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-C1

<400> 31256

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 atgggtcaat aaggcatcaa aacaactgga ccgtgaaaaa agacctgtgc ctagcggggc 120

agaccccata catcacagca tcccatcaca tgctcctcag catccaccat catatggcaa 180
agctccttat gaagatgaca agagcatagc atctcctggt ctgtccaacc cgataggtcc 240
tccaccattt ttagatagat actagttcat gcaaaagtag tgagtattta tgcacctatg 300
ccaatgaata acctctaatt acctacatgt attgggctgg tgtttggtta catgaagcaa 360
taactttctc ttatcgaaaa aaaaaattta agat 394

<210> 31257
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-F1

<400> 31257

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acggacgacc agatcgccga gttcaaggaa gcattcagcc tcttcgacaa ggactgcgac 120
tgctgcatca ccaccaagga acttggaact gtgatgcgtc cgttggggca gaaccctact 180
gaggctgagc ttcaggacat gatcaacgag gttgatgctg atggcaatgg aaccatcgac 240
ttccctgagt ttctcaacct gatggcacgc aagatgaagg acacagactc tgaggaggag 300
ctcaaggagg ccttccgcgt gttcgacaag gaccagaacg gcttcatctc tgctgctgaa 360
cttcgacatg tcatgaccaa cctaggtgag aaactga 397

<210> 31258
<211> 102
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-F2

<400> 31258

ttttcatcaa accaacacac tgctaattaa tgtttatgga tggatctatc caacaaaaaa 60
atcgtctgtt cttacgatga gcagggaaac cccttaccga tc 102

<210> 31259
<211> 178
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-F7

<400> 31259

tggagtttta cattaaaaaa taaaaaaaaa cttaaaaaaa aaaaataaaa aaaaaaaaaa 60
ggggggcaca tccaacatgt tgggtgggta atcattcttg tactacgaca tggttcctat 120
tattttcaag tacttaactt cactcttatt tcctttattt ttacatctgt cgcactgc 178

<210> 31260

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-H10

<400> 31260

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atagcatagc aaatgactcc cctaagaatg agcacttaca acttctcgtg atgctataag 120
gacgcactta cagatttttg cgtaaacaac gagcattcta gttgtgtttt ttaccagcag 180
gcgctgctac tcctgtcata cttcaaccat ttgtattcac atgggtcttaa tggtttgatg 240
acagctatcc tgttttttgt tcttatctaa aacacagtca cgcttc 286

<210> 31261

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-H5

<400> 31261

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ttttttaagg tccaattacg gttgggcaca gtagcagcat aaatagactt attttgtcgg 120
acggtttaaa atccagtcct gatcgccggc cgagagcaga ggaagcagca tcacaagtcg 180
ggcaggattc ccagggcctt gccgtactcg accatgtcgt cgtatatgtc atccagcgtc 240
ctgtacctga actcgaaacc ttccttcacc agcttcgccg acgacaggca cactctcggc 300
ttttaagccg ctgcgccgaa agcaggttcg ttttgacgcc gtactgcggg tacttgttcg 360
tcaggaaacg c 371

<210> 31262
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-B3

<400> 31262

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tgaacgagct agctcgggcg gcggcaggca gccatcatgt cggaggagaa gcaccaccac 120
ttcttcaacc accacaagaa ggacgaggag cagcccgccg gcgagtacgg gtactccgag 180
accgaggtgg tcaccgtcac cggcgagggc gagtacgaga ggtacaagaa ggaggagaag 240
gagcacaagc acaagcagca cctcggcgaa gccggcgcca tcggcgtcgg cgccttcgca 300
ctctacgaga aacacgaggc gaataatgac cccgagcacg cgcacaagca ccagaatcac 360
ggaggaggtc gctgccgcgg ccgccgtcgg ctccggcggc tacttattcc acgagcacca 420
cgagaagaag aaggaccac 439

<210> 31263
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-C4

<400> 31263

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ggcgaggcgg accgcgtga cctccctccc cgcgcgcctg cgcgcccctg cgccccccgc 120
ggcgacgggc ggccggcgcc tcctcagcga cgggaagggg cgcgtgctca gcgaggagga 180
gcgcgccaag gagagcgtct acatccagaa gatggagagg gagcggcatg agaagctcaa 240
gaagaggctc gagcaggaga aggccgactc cgacaaggcc aagcccgccg acgccgacaa 300
gaaggccgaa ggatctacct ag 322

<210> 31264
<211> 69
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-D12

<400> 31264

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gaaaaattt 69

<210> 31265

<211> 202

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-D4

<400> 31265

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gactgcttgg tatgtgtagt actgtactat cttttctcca tatgcatgtt ttgccagcgc 120

gtaatgaatg taatgtcagt actgctaaaa aaaaaaaaaa taaaaaaaaa aaaataaaaa 180

aaaaaaaaat aaaaaaaaaat aa 202

<210> 31266

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-F1

<400> 31266

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acacagacac agtgtgcagt ttttgacatt gctggtcaca tttgcagttt gaattgcaaa 120

accatattgc cagcattatt gccacaactc atattccatg atcacatcga atgaccgaaa 180

ttgatgacaa gaactagccc atctcaacaa ctaaaccctt ctttcgctgg tggcacggaa 240

caacaacgac acctttggag caaccactgc atatgcataa agcaacccaa tctctagtag 300

<210> 31267

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-F2

<400> 31267

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gtgtggctgc actggtcac acgatgatct ggagctttga aggcatagcc acctgtggtc 120

agcaactgct gccgtgttgc tagaataaag ttggtggcga tcgatcgatc gatctttggt 180

gatgggtgct cctccctgtg tgtttgtgtt tagttccagt cgtttgtgag gaagtcagtt 240

atgtttgagt gagaggggta cttecgctctt cggttaactc tgtacttgct atgaggagag 300

ttttcatacc cggagtgtac gatccgagta catactcgga tccttccttt ttcacgaaa 360

tgggttttat cttatca 377

<210> 31268

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-G7

<400> 31268

aaaaagcgaa catgttatag tgattgaaca gtcggtgacg caacgtcagt ttcaggcaca 60

ccagcagaaa actcggccca aatatcgatc aaagaccaac aatacgcatg tttggatacg 120

atctggtttg gacttacacg ttacactagc caacctgtca atactcagag caatgcatgc 180

atttgatta cccacacggg acaccaaadc acttggtacc tgaagatggg agatatggat 240

tcggtacagc aacgtaattg agatgtctag gtcaagagca ggtaccacag gatgaggcgc 300

gtggaggatg ctgtgatgag ttcgtgagtg gtctaggccg tcgtctccca gtcaactttg 360

ggttgctgga ccgttgtctc cttataatgt aattacttat ttatt 405

<210> 31269

<211> 55

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-H9

<400> 31269

cccacgcgtc cgaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gggaa 55

<210> 31270

<211> 395
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-040-Q1-K1-A9

 <400> 31270

 tccaggcgctc cgatctctac agaaatgggt ttgattccga aagaggtgga cacagattca 60
 ggagtgggtga tatgacaaac gaccggggga gaatgaggag cagatcacgt tctccaacaa 120
 ggcattggcta tggaagatct ggaagtccaa atcattagct gaatatctag atagttctat 180
 tcacagttgg gactcatgag ctctgttggg accctacagt cttgcttttt acatgagata 240
 aaaaaaattc tcagttaaac tcgtaagggc ggttctggac tttatgagtg gatgatgatg 300
 ttacagaat tacagtctat agcaggtaaa ccttgaacat taatgttttc tgagacacat 360
 atcttttatt tcccttgaca actttgctat aaacc 395

<210> 31271
 <211> 336
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-040-Q1-K1-C4

 <400> 31271

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 cattagacga tcaattcaaa atgagataca gtagttatta tttagcaaga aaaagtcagt 120
 atcgtcagaa cattcttcct taacagaagt cgtagggctt cttagtttag tacatacagt 180
 agcatgcata aagctaggac cgatatgggt atatatagag gatttatcaa aagcattacg 240
 tccaacatat attgaagatc catggccact agagcacaca gcgcacaaag aagcaactta 300
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<210> 31272
 <211> 91
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-040-Q1-K1-C6

 <400> 31272

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gaaaaggacg accgatacta tacagcatcc a 91

<210> 31273
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-D5

<400> 31273

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ctgacacaaa ttgccatagt ggcacggcat tgtaccacgc tgtggccgct gggttcgtgc 120
acgctcagct cagttagttc cgatctagtt ttgtaaattt gcgcgctcaa attagtttgt 180
tttctggha caaattggag cggaagaaac acacggacat caagatgggt ccgcgaggag 240
catctggagc agcatgtcgt tccagacgtc gatggggccg gggaggcacc agtgcacgca 300
gtcgttgtag agcgtcacgt tctcgtgagg ccagtggccg taccggctcg ggtggccgtc 360
cggccgaagc acca 374

<210> 31274
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-E7

<400> 31274

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ctctcaggct ttcagttagt gcttatggcg ttctgttaga acctgtattt gtattcctgc 120
tgaggagcctg agttccattc cgtgcaaaga taaatcatgt gtgacgacac gtttgcaaca 180
gcatttatgc ttaaactgca ttaatgatga tgcgttgagc tcctgaatgc ctagtttttc 240
tggcgacaaa aaaaaaaaaa aaaaaaaaaa aataaaaaaa aaaaaaaaaa aaaaaaaag 300
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaataaaaa 340

<210> 31275
<211> 372
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-040-Q1-K1-G10

<400> 31275

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tgtttcactt ttcggctttc tgaactgctc ggtctcacga gcctgtgtag tatcataaat 180

tcataatatt gtaatgcgag catttactgt ggacgcaacg ctctcttcag tatgaataga 240

tactgaataa ttaagagcat gatatatatt gtttgcgcg cgcattgagt tctgaaatat 300

aagtgaagtc cctcgacatg atcaaaaaan aaaaaaaaaa aaaaatagaa gaaaaaaatt 360

taaaaaagaa ta 372

<210> 31276

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-G7

<400> 31276

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gccaggaacc tctttccaca ctccgcgct cctgcctctg tctcgagact cgagaatggg 120

tgtgtaggcg ggcgaggag ggagggaggc gagaggggga gctagggttt ttcgccagcc 180

gccttctgtt atcctcaggc tctgaacccc ctctgtccg gtgcgcggcg gattagactc 240

cgatggggaa gtctccggcg aagtggatca agtccgtgct ctctgtgaag aagtcgtcgt 300

ccaggtccgg ctacaccaag gccaaagatt tatcgaaagg tgcgagtaac aaaggagctg 360

ctgctgcggc gaaagagccc gtgttctctg agagctcccc agtgatctcg gagcctgtac 420

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<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-040-Q1-K1-G8

<400> 31277

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gcccactga gagggcctgg ccagcgggtt acttcctgta tgatctctca ccaattacag 120
tcaccatcaa agaggaaaga aggaacttcc ttcattttat aactcgtctt tgtgcagttc 180
ttggtggcac atttgccatg acaggaatgc ttgaccgatg gatgtaccgg cttgtcgagt 240
cagtcaccaa ctgaagacc agaagtgtac tgcggtaact gcacaattca tgtaggcgg 300
aaaacagctg gtaccgtggc taatgaagcc aatagacgga ctttgctcc caagctaacg 360
gatgaagcaa tgctgatttg catgttntat tttcttcgta catgactaac tttatcatca 420
gttatgttaa attgacac 438

<210> 31278

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-C4

<400> 31278

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tgcaaatcat gggatgcaaa ttagtaacag ataatttatt gactgctcta tcaaagagct 120
gcctgcaatt ggtagaactt ggagctgcgg gatgtaacag cataacagat gctggtatat 180
ctgctctggc tgatggctgt catcacataa aatcactaga cataagcaaa tgcatgaatt 240
tcctaactga agagggaggg agagagagag agagaatggt cctgtttatg tagagatgga 300
gtccaaaatt tgtgtgcctg atgagttctt ccccatatga tattaactga aatagtatat 360
caattgaatg tattacattt taagttttta ttcaatcgat cttagagat taaaaataa 419

<210> 31279

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-D2

<400> 31279

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 tgcagaccac cactcattat ctatatgacc ctgattaact tctgacattc gcgtttgaca 120
 cgagtgggtc aatgccaaca aatacaatca caaaggaaag gaaaaagcac gagactgttg 180
 tcctggctga gcttgatcaa agaacaagac ggctgagttc actcaagatg gatggatagt 240
 ttgtaaaata caagttcttg aaagctgtag tcttggccta ttctgcacct ggttccacag 300
 cgatatgcttc actgagcgaa aaatcattgg tctaccgaat actgcgaga 349

<210> 31280
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-D8

<400> 31280
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 cgctcaccat gtacctgtcc gaggaccgct ccgagtacga cccgcgcacc ggctgcctca 180
 agaagtacaa cagcgtcgcg ctctaccaca acgccatgct ccgcgtcgcg ctcgaccgcc 240
 tgcagcgccg ccgcccggag tcccgcgtcg tctacgccga ctactacacg ccctacatac 300
 agttcgcgcg cacaccgcac ctctacggct acaagcgcg cgctctgcgg gcttgctgcg 360
 gcggcgcgcg gccgtacaac tacaacgtga gcgcgtcgtg cgggctcccc 410

<210> 31281
 <211> 134
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-E12

<400> 31281
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 ctctttatta tcaaatgttg gctgcgctgg cattccactt gttagcccgt ttatagtgtt 120
 acctaaattc aatt 134

<210> 31282



<211> 303
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-042-Q1-K1-G6

 <400> 31282

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 aagaaacaac tgtcgtatg caaccacta caaggttcca gcccagcact ttactgaaat 120
 aaagtttgaa aatatactgt atattggaca ctgccatcac catcctcacc gtcggttacia 180
 ccagcagcat ctgctaattc ttcttgatt tcagttcttc aatccgttcc ttctgtggcct 240
 tcaaagcatc gccgaatttg cttatgattt cttcgacttc attgggagtc atgatcaacg 300
 ggg 303

<210> 31283
 <211> 111
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-042-Q1-K1-G7

 <400> 31283

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 caaaacacga aacaactgac gaatagcgag ccgctaccag gtagcagccc a 111

<210> 31284
 <211> 332
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-043-Q1-K1-B6

 <400> 31284

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 aattttatta catctgtac acctcacttg ggctcaaggt tgaataagca acttcccttc 120
 ctttttggtg tcccactttt ggagaaaact gctgcaggaa cagcacattt tatagttgga 180
 agaactggta aacatctatt ccttacagac aacgatgatg gtaagactgc tcttctccta 240
 cgaatggttg aagattgtta ctgactgtaa ttcattgtctg ctatgcgctg gttcaagcgt 300

cggtgtgcct atgctaattgt aacatatgat ca

332

<210> 31285
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-B9

<400> 31285

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tagaagagaa aataagagta gttctctctg ttctaggatt gctaccttca agttatcatg 120
aggctttgca acagctgcgg gataaggcac tgagacgagc ttccatcacc gaggagcttg 180
tggtgcagaa gattgaagag aggactgcag caaggaaggc aaagcagtat gaaaaatccg 240
acgagatccg gaaagaactg gctgccatag gaattgccct catggatggc cccgacggaa 300
ccacttgag accatctttg ccaatttttag aggaagcggg ggttgcgaaa acatgatctg 360
tgcaagggat tccaattcga cccatggaca ccagttctag tcgtgtatca tggatttgct 420
atatgtgacg aacttg 436

<210> 31286
<211> 291
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-C10

<400> 31286

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gttttttttt taaacgaagg gtgacaaaaa aataattcta atcttattca gttcaagcat 120
ttatttaata cccaattgc caaatgtctt acaaaagcaa tagcacctac aagatatcgt 180
aacacattgg aacgctccgg catttggaat agcaacttta caatcggtag cgcaacgctt 240
gcaacatttc gtgttttgcc caaaagatgc ataaaaaaaa aaaaagggcg g 291

<210> 31287
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-D9

<400> 31287

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ttttccctga caaacgtgtc atcaattaat ttgtaaaaaa aatgatagat taagcggcga 120
tcggcatgct ctgccgtagc gccgaactcga cacacgagac agcgtgtgag cagaagaccg. 180
agggtgagatt tcgtacacac tcatcccaaa cgggtctgaat cagaagggga atcgctggcg 240
cgtaggctat gaatactgtg agccaaagag atttgatatt ttattgctag ctgcagatca 300
gagaacctga agtatattga tttcataggt ggttcttgct ggatcatgtt aagctccatc 360
tcttataata gcttgaactt atacatattt ggtacttggt ttaaatttat aatgcacaga 420
ttattgatat tcgtatagat tgag 444

<210> 31288

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-H11

<400> 31288

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accagatgcg ttccgagggc atgaggccgg aactaagac cttctgctgc ctgatcgacg 120
ggttcagcag ggcaggccaa ttccataagg tggtaggcat ggtgaagctc gccgagaggc 180
tcgacgtgcc cgtgaacacg cctttccaca acgctgttct tggcgcgctgc gctagagcgg 240
atgatcttgt ggagatggag aggggtgttca ggcgcataaa gcatacgag tgcgagcctg 300
atgcttcgac gtactctatc ttggtggagg cttatcgcaa ggagggaatg accgacaaga 360
tctatgctct gcattaggag aaccgggctc tggtttcagc ttgatttgct atggtttgaa 420
tgaccagtg acttgagtca cg 442

<210> 31289

<211> 222

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-H6

<400> 31289

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aagaccagaa tgaagtgggt gggatgccct cagacaaga ggaggaggca gcaattaaga 120

aaaagtatgg aggaatattg cccagaaaga ctccacttat atctaaggat catgaacgtg 180

cttactttga ttctgctgat tgggctctag gaaagcaagg tg 222

<210> 31290

<211> 193

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-044-Q1-K1-B2

<400> 31290

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aggtttgata tgggtgtgta tactgtgaac gtgggctagc ctatgatcta tgtctgcagt 120

ctgcaccata tgttgaactg ctggactaca acagctcgga tcaaaagccg aatgtacaaa 180

attaaccaag aac 193

<210> 31291

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-B4

<400> 31291

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gtcgtggtgg tgttcgactt cgacaagact atcatcgacg tcgacagcga caactgggtc 120

gtggacagcc tcggcttcac cgagccgttc gagcgctgc tgcccacat gctctggaac 180

acgctcatgg acaccatgat gggggagctg cagcgcacg gcaggaccct ggacgacgtc 240

cccgaggcgc tccgtgcagc gccgctcgtc gcgggcgttc tcggcagcat caatgc 296

<210> 31292

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-B8

<400> 31292

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aagtgggtggg agaggtgcta ttttagccat gaagcgtgct ttggaccagt caggtcttca 120
tgtaaataaa attggttatg tgaatgcgca tgccacgtcg actcctcttg gtgatgctgt 180
ggaggcgaac gcgatcaaat ctgtatttgg cgaccacgca gcatccggtg atcttgcaat 240
atcctcaaca aagggagcaa ttggatcatc gctaggggca gctggatcag tggagcaat 300
cttcactgtg ctagcaattc accacggact cgctccgtct actcttaacc tggagcggcc 360
ggaccgctg ttcgaagggg cattcacgcc actagctgcg cccaagaaga tgtc 414

<210> 31293

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-E7

<400> 31293

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gaagattggg gtgcaaatca ttcagaatgc tttgaagaca cctgtacaca ccattgcctc 120
caatgctggg gtggagggag cagtagttgt gggcaagctt ttggagctag gaaacactga 180
ccttggttat gatgctgcta aagacgaata cgttgacatg gtgaaggctg gtatcattga 240
tccgctaaag gtcacagaa ctgcattggg ggatgctgct agtgtgtcgt ccctgatgac 300
caccacggaa tccataattg tagagatccc caaggaagaa gcaccggctc cagcaatggg 360
tggcatgggt ggaatggatt actaagtgtt aagcaca 397

<210> 31294

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-F7

<400> 31294

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 tacggccgcg cgcccgtcga ccccgatccg tacggtcgac ctccgcccc a gtcgcgtac 180
 ggtggggccg gggacgccta cgccacagc ggccaaggct acgcgcccc gccggcctac 240
 ggcgcgggg gcggttacgg caacgtcgtc cacgtcgcgc ccgaagtcgg cgacgagagg 300
 cttacta 308

<210> 31295
 <211> 289
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-H3

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 tccttctca aagattattc tgaatcacac aagaaactct ctgaacttgg cttcacgcct 180
 tgcaacacaa caccattcaa atcagatctt tcaaccggcg gcgtgcttgc acagaatgcc 240
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<210> 31296
 <211> 440
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-045-Q1-K1-A10

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 gagcagcaag agtgcagtaa ttcagattct gtgatttgac tcaataattg acatgattgc 180
 attattgaga ttataacttg gagctgatta tattcgttat ctatgataga aacctccaaa 240
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 cagttaacaa cttcctttta tgcataaac aggagatgaa cctggaggca cctncagcat 360

tgggaggtgg atgtgcagcc cccatgctag gagattcgat ggaaaaggct ccaagctcac 420
cttggatgcc tntctccatg 440

<210> 31297
<211> 91
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-A2

<400> 31297

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ggagaataaa aaaaaaaaca gaagagacaa a 91

<210> 31298
<211> 76
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-A4

<400> 31298

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gggaaagaaa aaaaaa 76

<210> 31299
<211> 70
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-B12

<400> 31299

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ggaaaactga 70

<210> 31300
<211> 267
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-B2

<400> 31300

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aaggtttggg gacgatgaca atgtaaataa tagagggtggc tttggacgcg gaaatcaagg 180

cagagggaga gggaggagtt ttgggggtgg tgggtggatca tcatggaatg aaggcaacag 240

aaacggtgaa ttacgtgggg taaggtc 267

<210> 31301

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-F7

<400> 31301

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aactfcgacc tcgactcggc ctacagtgcc tttttggctg cgctgcccg cgtgggtctg 120

taaccgggcg tggacctggt tcgttcttta cttctattac agtactatag atatctgtaa 180

tttcggtact gctattttat tgtaataag aaagttctgt tttctttata tactgtaaat 240

atgtttatcg catgatatac attcacatga caacgcttgc aaatggcctg tagcctgttt 300

acttgggtaa aaaaaaatat ggggtataagg tgaaatgata agaagatagg tagtggtagg 360

tga 363

<210> 31302

<211> 175

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-H10

<400> 31302

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gggcaaccaa agaaaggagc ggcgaagaaa acacacgcac gcaggcaaca aaagcagcgc 120

gaacagaggg agaccaaaaa agcaacaagc cgggccaacg attgacagcg gcggc 175

<210> 31303

<211> 438
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-045-Q1-K1-H7

 <400> 31303

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 tcgtcttcct cgttgccatt gccacgtgcg tctgccgctc accattcccc atcctgacga 180
 tggctgcgga cgcggaacaac ggcaccagcc acctgagctt cttcatgcac gacatcacgt 240
 aaggcgccag cccgaccgaa gtgaagggtga tcaagggggc cggcgcgggg tccacgctga 300
 ccgcgccggc gctgggcatg acgttcggcg acaccatggt gatcgacgac ccgctgacgg 360
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 accagaccgg ggcggtgc 438

<210> 31304
 <211> 64
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-046-Q1-K1-A7

 <400> 31304

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 ggaa 64

<210> 31305
 <211> 215
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-046-Q1-K1-C10

 <400> 31305

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 agttctgtat ttgttgctat aaaagggtgca tactttgaat gactggttca tcaaaaaaaaa 180

aaataaaaaa tggaatgaaa ataataaatt aaaaa

215

<210> 31306
<211> 226
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-D2

<400> 31306

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agctggacgt ccttagctct ccacttactg tactattcta catctgataa ttcccgattg 120
ctaagctcca tcgctgcagc tactccgacc actttgaggg cactctctct tacattacgt 180
gtgattcctc gatgaccagt aagaccaggt tatatctcca ccatgg 226

<210> 31307
<211> 96
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-G5

<400> 31307

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agggaaaaga aaaaggagta agaataaaga aaatac 96

<210> 31308
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-A12

<400> 31308

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agacatcgaa atgacgcttt gtgattctta agctcatcca tttcttgtca gctgcacgga 120
tgacaaacta agttctctat tgtgttgacg ggtgcagttg gatgactggg tcctgtgccg 180
catctacaac aagaagggcg gcgggctgga gaaggcgccg gcggccggcg gcgaccacaa 240
gcctgtgttc gccacggcgg cggtgagctc cccgccggag cagaagccgt tcgtggcggc 300

ggcgggaggg ctgcccccg cgttccccga acttgaggcg tactacgacc ggccgtcggg 360
ctcgatgccg cggctgcacg cggactactc cagctgctcg gagcagggtgc tgtccccgga 420
gcagctggcg tgcg 434

<210> 31309
<211> 236
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-A8

<400> 31309

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gacccttctg ccggcgatgc gtcctggcc ttaactggcc gggtcgtgcc tccggcgccg 120
ttactttgaa gaaattagag tgctcaaagc aagccatcgc tctggatctt tagcatggga 180
tatcatcata ggattccggt ctctatcgtg ttggccttcg ggatctgggt cggaac 236

<210> 31310
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-C12

<400> 31310

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gaagaagtgt atcaaaagtc aagaatatgc agcagagcat ggtttgcctg ttctgaaaaa 120
cgtactcctt cccaagacaa agggtttcaa ttgctgtttg caagtgctga ggagtaccat 180
agatgctgtg tacgacatca cgatcgcta caaacaccgg ccgccgacat ttctggacaa 240
cgtctacggc gtgggtcctt cggaagtcca catccacatc agcagcatcc aggtctccga 300
cataccggcg tccgaagacg ggggtggctgg ctggctgggt gaacgggttca ggctcaagga 360
cgagctgctg tcgggcttct tcgcgctggg ccactttccc gacgaaagga aaaggacccg 420
agggg 425

<210> 31311
<211> 66
<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3067-047-Q1-K1-D6
 <400> 31311
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 cactac 66

<210> 31312
 <211> 290
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-G3
 <400> 31312
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 tcctaggggt gagcgctcgg ctgcccgcgc ttgccgtacc gatgcctgtg ttgtcccaac 120
 ttgccagttc gatgcctgta cccgtggctt aattctctat catcggagct acttatgtgg 180
 ttctattact agatgctgac ttactttcaa cttgtgctgt tgtaccttca tatttggact 240
 ttttaagcct tgtgtcggac gcctttggca ttgaaatatg agagatcttg 290

<210> 31313
 <211> 54
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-G6
 <400> 31313
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<210> 31314
 <211> 337
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-H11
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tgccaggata ggtgagcgat tgagcccttg ggtatcagtc gggtgcttgg ctatgggaat 120
atccactatt ttcttctaag gccgaagtgt taatctccac atatttagtc taggacgcag 180
caccttgttt cacttgtaga gaaaaaaaaa ctatcgtaag cattttgctt cagtttttaa 240
tggaatgggc actgtaagat ctgtatctgc actgagattt ctgagattaa caaaaatggt 300
ttctcataag atttctgaga aaaaaaacia ctacata 337

<210> 31315
<211> 442
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-047-Q1-K1-H5

<400> 31315

cccacgcgtc cgtatgaact taactgatgc atttgataat atgatgattt cttttgagcc 60
tgttcattag atgtaaatta acacagtatc catttacaac caattctttt gcattttttac 120
aattgacctt ttcattttca tataaaatat tggcatattc acaatatact gaattgtgaa 180
cttgtcaagg attcaagggc atgcaattct tgaacgtttt agtggaatat gaaagtctca 240
tctggtcata caatatgtga gtctgagatg attcatattt tatgccactt ttttacattt 300
tcaaattgtct ctgttggtgt gattgggtcac ctatatacctg ctgattttgc acacatcang 360
agttccaagt aggtattttac accattcttc ctactagtaa gttttctata atctgacaaa 420
tttcgtggtg cctatgctaa tg 442

<210> 31316
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-A12

<400> 31316

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gtacgcccac agcccaaac ccacgccgac gacgtacact cccaccccga cgcccccaa 120
gccgacgcca cccacatata ctcccgaccc tacgccccac aaacccacac caaaacccac 180
tcccactaat acgacgtaca ccccgaccca caaggctccg acacctaagc cgacccccacc 240

aacgtacact ccaaacccca aacgctagac gcccacacg accccagcta cttacacccc 300
 ttgccgcaag ccttcgacac ctaatccgac caactctacg tacactccaa accctaagcc 360
 acctgatacc aagcccttca cgcccaatcc gaccacgtca acgtacaccc attcgccaaa 420
 gcctacgaca ccc 433

<210> 31317
 <211> 422
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-048-Q1-K1-D5

<400> 31317

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 ggaccaaggt ccagcgtatt atgaccacgc ccatcaacct catcttcgg ttectacaga 120
 gcaaagcgcg catccagatc tggctattcg agcagaagga cctccggatt gagggtcgca 180
 ttatcggatt cgatgagtac atgaacttgg tctcgaaga cgctgaggaa atcaacgtca 240
 agaaaaacac taggaaatca ctgggcccga tactctctcaa aggtgacaat ataactttga 300
 tgatgaacag tggcaagtga agattcttat ggcaggaacg atgtttggtg ctcgcttcga 360
 ttatctgtga cacaatgtac tccattcatg cgtncagact taaatgatgt atcatggtca 420
 tg 422

<210> 31318
 <211> 66
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-E7

<400> 31318

aaaaaaaaa aaaaaaaaaa aaataaaaaat taaaaaaaaa aaaaaaaaaa aaaaaggaaa 60
 agaaaa 66

<210> 31319
 <211> 447
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-G11

<400> 31319

tggatgggaa agaaacaaga gtcagttgag gatgttcctt gtggtaacac tgttgctatg 60

gttgggtctgg atcagttcat cacgaagaac gctacactca ctaatgagaa ggaggttgat 120

gcatgcccaa tcagagcaat gaagttctct gtctcccctg ttgtgctgtg tgctgttcag 180

tgcaagggtg cttccgacct tcccaagcta gtagaagggt tgaagcgtct ggcgaagtcc 240

gacccatagg ttctgtgtac aatggaagaa tctggtgagc atatcattgc tggagctggt 300

gagcttcacg ttgagatttg cctgaaggat ctgcaagagg acttcattggg aggtgctgaa 360

attattgttt ctctcctgt tgtgtccttc cgtgaaaccg ttcttgagaa gtctgcccgc 420

actgtcatga gcaagtcacc taacaag 447

<210> 31320

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-G4

<400> 31320

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atgtggttct attagtcatt gaacacattt ttacagatag acagtgaatt aagcaaagag 120

atagaacaat ggaatgacat gctgaggact gaagtagtaa agttgtgtca agacaacaat 180

tttcaaacag gtttttttga aggcactgat aatagcactg ttgttgatgc ttacgagttg 240

aaggtaaadc taaatgtaca ctctgtacta actacgtgta cacattaatt gaacctatcg 300

agcaattctg ttgttaggtt cgacttgagc acattctcga gaggatatct ttgatctctg 360

atgctgcaag tactgagcgt ccatcacaga tcacagatta cctgtatatt ggtggtgctc 420

ttgctgctcg gtcaacacac acacttaa 448

<210> 31321

<211> 254

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-H5

<400> 31321

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gaaacagagt tcttcagttt gctatctctc tctgcatgtt tggcgtcagt ctttgtgctc 120
atgtacgtgt gtctacatgc atgttggttg atccgattgc gtctgctgct accatatatt 180
aattggacca cgatgatatg atttgatact atatatatat actaaaaccg gacttattat 240
tatgaaaata caat 254

<210> 31322

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-A12

<400> 31322

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tgccggggta aaatgcccac gagtttactt ttgcagttag tatgtcaatc taagctggca 120
gatacttgat ttgtaatagt ctttgcgtgt gtttcgctct tcatgtggca tgttcagttt 180
gatctatagt tgtatctttc actttcacac tgaaattgaa aagtaaagcg caaatttcct 240
tgtaaaaaaa atgaacagaa aaaaaaagag aag 273

<210> 31323

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-A3

<400> 31323

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cggcgtctcc gtcggcgtgc ccatcagccc caccgtcgac tgcaccaaga tcaactgac 120
gatggaacca tagtggaggt agctcgctcg ttggatggca gcgtacgtgg ccatcagcag 180
catgcagtcg tcgtcgtagc agagatgtcc tagctacgtg tgtgtcatgc atcagactgg 240
cacataataa agaagtagat catgcacca ctagtgatca cttcgtctag tgtccctccg 300

ttcaatgtcg tgcgtcgtcg cgtgtacctt acgtgacatg cttgagcacg tacgctagca 360
gagcagcacc ttaatgtcct tgggtttgct ttgctggctc tctgggttcg tcttgggggtg 420
cttttaatct ggca 434

<210> 31324
<211> 458
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-049-Q1-K1-A5

<400> 31324

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gctattttccg tccgtgtgcc catcatcccc accagcgact gcaccaagat caactgatcg 120
atggaaccat agtggaggta gctcgtcgtc tggatggcag cgtacgtggc catcagcagc 180
atgcagtcgt cgtcgtagca gagatgtcct agctacgtgt gtgtcatgca tcagactggc 240
acataataaa gaagtagatc atgcacccac tagtgatcac ttcgtctagt gtccttccgt 300
tcaatgtcgt cgtcgtcgtc gtgtacctta cgtgacatgc tgtagcacgt acgctagcag 360
agcagcacct caatgtcctt ggggtttgctt tgctggctct ctgttttcgt cttgtgttgc 420
ttttaatctg gcacaggttt ctaaattata ataatgaa 458

<210> 31325
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-B12

<400> 31325

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ggagaggaaa tgcgaagatg gcgatgaccg tcgaagtgtc tgctgcactc gcgttcatgt 120
tctccacgag tattctactg cagatactgg catgcgcttt gtacaacaac tgggtggcca 180
tgtagcagc tctcatgtac gtccttgtac caatgccatg cctgtttttt ggtgggtggat 240
ccacacactt cttgaccagc agagaaggtg gaggggtggat taatgctgca aaattcttga 300
ctggtgcgtc ggccatggga agccttgcta ttccagcaat tctgaggcat gctggcttaa 360

tcgagaccgg ggccatgttc atcgagttca cgttcttctt catcctttga tgcacagtgc 420
tgtgcttcca taaggcgact ctggatga 448

<210> 31326
<211> 275
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-A1

<400> 31326

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aagggcgcgc tttccaagta ctcatgatca ttatggtggt cgttgtaggg atctttcaac 120
ccgaattctg tcacgaatct ccgtcgggac tgtttttcac aaaaccttcg tagaccattt 180
ggacactttg ttcgagttcc agatttatat ctccaagag attattacac tggacgcaac 240
acatgcctac aagattattg ttgaagacca cgatt 275

<210> 31327
<211> 101
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-B10

<400> 31327

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gggtaattat tgaaaggtca gagaacttct acagtgcctt t 101

<210> 31328
<211> 276
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-D7

<400> 31328

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gcttctgctc gcctgcgtcg tctgcgcccc ctccctttga tggtgataaa aatacttttg 120
tttacttcgg ccgcctgctt gtaactaatc aacatgtgga tcaccatgcc gcatgcatgt 180

cagtctgtcg catcggaac gtctgctatg taatgctgta ctggtcgtcg attcgtctct 240
 ctgaatgagt gtttggcagc ataaaaacat gaacat 276

<210> 31329
 <211> 273
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-D8

<400> 31329

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 cttctgttcg cctgcgtcgt gtgcgcccc tccatttgat cgtgataaaa atactttagt 120
 ttactttgcc cgactgcttg taactaatca acatgtggat caccatgccg catgcatgtc 180
 agtctgtcgc atcagaaacg ttcgctatgt aatgctgtac tggacgacca ttcgtctctc 240
 tgaatgaatg ttcggcacca tactaaaata tac 273

<210> 31330
 <211> 63
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-F9

<400> 31330

cccacgcgtc cggtaaaaaa aaaaaaataa ttaaaaaaa aaaaaaaaa aaaaaaaggg 60
 aag 63

<210> 31331
 <211> 449
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-050-Q1-K1-G9

<400> 31331

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 agcgcttaaa tgctgaagct cgggtcatga caaaagcaag aaggcttggt gttcctaccc 120

cagtacttta tgctgtggat ccagttctgc atactttgac ctttgagcat gtggatggct 180
 tgtctgtcaa ggatatactt cttaggtttg gttcagatgg ggtcaatgag gaacgcctga 240
 atgatattgc cacacaaata ggaaatgcca ttggcaaaca acatgatgga ggccttgttc 300
 atgggtgattt gaccacgtca aacatgataa ttaagaacag taacaatcaa ttggttctta 360
 ttgatttttg gctgagtttc acttcgacaa ttcccgagga caaagcgggtg gacctatatg 420
 tgctagagag agctntgatt tccatgcat 449

<210> 31332
 <211> 229
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-H11

<400> 31332
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 gtgccgcttc cttttacttg attttgtaaa ccggagactg taaatgtgct tgaaccgtgc 180
 ttttagaccc atgcctgaaa tcttgcaccc aataagcgtc tttgaagtg 229

<210> 31333
 <211> 183
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-B2

<400> 31333
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 gtcgctaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaaag ggccccccaa aaaaaagaac 120
 acaaacatac atacacgtcc atgcaacacc ataactctac aataaagcca cctaaataaa 180
 att 183

<210> 31334
 <211> 327
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-C1

<400> 31334

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ggagctgttg taaatgacat caatccatac aacaaggata tgttccctga ttttttgaga 120
tggctaccgg agagaaacct ttcaagcgat gatcggacaa tgcgcctaaa agaaggatac 180
atcaaggaag gtatcactgt gagtgtgatg ggggttgtcc aaaagaatga caatgttctg 240
atgattgttc cttcatcaaa gcccatctca actggttgta agtgggcca atgcaatttc 300
ccaaccaacc ttaaagggt tatttta 327

<210> 31335

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-F6

<400> 31335

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ctcatatcct cgtcgagggc gaggcgggtg gcctacctcg acgagccctc cgtgctgccc 120
tgcgccggtta acgacgcctt cgcccttgac gccgtcggcg acctcgact cgctctcgaa 180
gcttatgaat ctacatctca taagctgggt ttcatcagc aaaggtctcc agttactaca 240
ggaatgatgg tttcatttgc aaaaaatgtt gctgatttca taagcagcat cggaagaac 300
catattgtca ttatatcaag tttagattct ggaaagagga gagtgattga tgcattcagt 360
gacatgcagg tgtattacct ttcaagttgc aatgaagatg gttctgatcc agaatatgag 420
aaattggggt ggaaaaagct tg 442

<210> 31336

<211> 241

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-051-Q1-K1-H4

<400> 31336

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agctgcccac cttcatccgt caaccatggc gacccanac agcaagaaga agaagtctgt 120
 cagcgacggt gttttctacg ccgagctcaa tgagatgctt accccggaac ttgccgagga 180
 tggctactct ggcgtggagg tgcgcgtcac gcccatgcgc acggagatca ttattcgcgc 240
 c 241

<210> 31337
 <211> 89
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-A8

<400> 31337

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 tacgccgaag aggaaggagc actttgtat 89

<210> 31338
 <211> 554
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-052-Q1-K1-C12

<400> 31338

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 cgagagaagt ggatccagat cgagaccgcc aagatcatcc gggagcgcct ccgctggtgc 120
 taccgcatcg agggcatcaa ccaccaccag aagtgccgcc acctcgtcga ccaataccta 180
 gaggtaccc gcggcgtggg ttggggcaag gatgcccgcc cgctgaact ccacgagccc 240
 aagaagaccg tcaaggcgga gtagcggcgc tgctgccttg cttctcgtgc tgctgttctt 300
 ggattggaga ggtgatctga cccttccatt gagttgaatg aagtagcctg gaactgtggt 360
 agttcgtctt ttacatctta agctgctgat agacttcaaa taaaatcttg tccaagaaaa 420
 cattctgtga gcgtacatgt tgcgtcgcag ctgtgtaatt gagcaaactc tcagattgaa 480
 actcgggtgc tgccttggtc ttcaaatacc gcttatccag acggtgcttt tgttttgaaa 540
 aaaaaaann naaa 554

<210> 31339
 <211> 228
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-052-Q1-K1-C2

 <400> 31339

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 ccatcgcgca ttaaaaacgg ctcccgaagg caccctgcgt gatgcgtgcc ggctgtgttc 120
 aacctagcag cgcgttctct aattccacgg cgctgaacgg ctgctaattc tcgaccttct 180
 cgccgacgcc tatgaattag actgacacct gtcgttgccg ctctatcg 228

<210> 31340
 <211> 273
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-052-Q1-K1-F3

 <400> 31340

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 caaactccac acaagccgtg ccagactaag ttagatagat atatcagatg agctgcctga 180
 ttcacagaat ataattggct taacatagga aaggagggtgc tgagccacgc tagctagctc 240
 atccttttct cctaaaaaaa aaaaaaattt taa 273

<210> 31341
 <211> 579
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-052-Q1-K1-F9

 <400> 31341

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 acgtgctaaa tctccagctt cacgctcaaa gatctcaagg atccatagaa gtccagagaa 120
 tggccatatt ttgaatgggtg acattaggca aactgaaatg aagccctcaa ctggcacatc 180

agcagcaatt acctcagtag ctaatgttcc tgacttgggc gaccaaaagg agtttgaaca 240
 tggagaaaaa ctgcaaagaa taccaaaaaca gaaatatcag ccttcccata accagcagcc 300
 ccaagacgat cagcagtggc tagtcacttg tatttcacaa tatcttggat tttctgggag 360
 caaacctgtt gcagctctcc ttatatacca atgtcttctc cattggaaat catttgaagc 420
 catgaagacg ggtgtctttg atagcatttt gcattgctata aactcagcca cagaggttca 480
 aaatgacatg agaacattgg cgtattgggtt gttcaactta tctacattaa cagtttttct 540
 tcaacggtca ttcaaaaacta ctaggaccac aatcttaac 579

<210> 31342
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-A11

<400> 31342

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 tctattgcc aagctgccat tacaataata ctcatcttag ggacttcatt tcttgcagct 120
 gccaatccaa ttgcaagatg ctatgacgct cttaagatca gttctcatat tctataagca 180
 tttatctcga gtcagcaatt aggaactgtg atgggtttta ggtcaccggg aagggtgttg 240
 agaagatctt ggactgggag agaagtgcac agaagcaagt taaaatcctg ttgaagcccg 300
 ctcatgtcat cctgcaacgt ctattcaatt tttcttatt ccattttgtg acgttatgac 360
 taagcatgcc aactggcatc cttagcccac ttcttatcga gcttgggtgc ataccacatg 420
 ta 422

<210> 31343
 <211> 172
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-B8

<400> 31343

ctgacgcgtg ggaaaaaaaaa ttaaaaaaaaaa aaaaaaacca ttataaaaaa 60
 atcgcaactt gggaacacat acatgcaaac atcctacctc tcctatactg tcacctaaat 120

tcaactcact tgccgtcacc taacaacttc ttaactgcca aaaaccttaa cc 172

<210> 31344
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-C11

<400> 31344

gcaagaaaca cactgtactg cttgtatggc acagtctgac gcgatataca gaaatacaac 60
gagtgtcaaa acagtagtaa aacatcacia gtctaaaaac gacgtgttct ccagcgacaa 120
cagtgggctg gactggacac aatcggcagg gaaatgtacg tcgaaatcaa cagaaggcac 180
ccgagcttta tttttctgtg atggaaatga tgaacgtctc aggaaatagt ttgccagaag 240
cccagaactg tgtgctctag ggctcgacca ccatgctctc cgcttccttc ttgatggact 300
ggaacagcac cgatgagagg tagcgctcgc cgaagctcgg gaacacgtac tcaaatagct 360
ttccggcggt ttc 373

<210> 31345
<211> 226
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-C2

<400> 31345

taaaaccacg gtattgctta aaatcgagat gtctttgggt tcattagaaa actgaagtat 60
tgatagagta tttctttttt ttactgatgt cctgagtgga gtttcacaaa ctcctaaaat 120
accaagtttc caaacagtgt catatgacaa ctgactttgc ttttagcgt ttttcaagat 180
taaagttttc cattcttttc tatttacctt ttacatgcgg ttattt 226

<210> 31346
<211> 188
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-D12

<400> 31346

tttcccggtgt ctaccactc gtcctccac tcttctata agttgcttg ttcaaaaaa 60
 aaaaaaaaaa aaaaaaaaaa aaaaaaaga aggataaat ataaaaattc acaatcttac 120
 atacacttac atactacttc ataaacacta ctatagtatc acctaaattt aaattcactg 180
 tctctaata 188

<210> 31347
 <211> 299
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-F4

<400> 31347

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 atctccatgc tctcctgtta gccactcggc agagtgagga ttactaggta ggggtggcatg 180
 tcatgtgctc caccctccac tggtagcagt caatcaacta aagctacccc cggattgatg 240
 aggaacatcc cgcgcgatta gtggggcatg tcattaaaaa aaaaaaatat aaattaaaa 299

<210> 31348
 <211> 376
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-G5

<400> 31348

actagttcta gatcggcgcc ccgcacatgc tccactactg atgattgcct ccaccaacca 60
 cggcaccatg catctgagggc tgtcagctgg ggctgggttg caacaagaca agaagaattg 120
 gctgcctctc aacaacattc acatctacta cctacctggc tgctttgaga attacagggc 180
 ctctactatc tgctgctgtg ttaaactctac ctctgggtt ctccaataat tgctcgtgtt 240
 ctgtactctt ctcttatgtt ctgtctgtca gtgtgtatga gatgatgctc atcttatgtt 300
 ataaggctta atcatgtgtc tagttgtact ttctgtcttg taatgttatc agttatatga 360
 ataataagtg ttatgt 376

<210> 31349
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-G7

<400> 31349

tccaaagctg ctctcgcccc cataaataaa gcagctcctc cgggggcggc gaactactcc 60
tggtcgctg aaccctagtc ctgcttcttt gccatggcga gcagcgctag ccaggcgagc 120
ctctgctcc agaagcagct caaggatctt gcgaagaacc ccgtggatgg gttctccgcc 180
gggctttag acgacagcaa catcttcgag tggcaggtca ccatcatcgg accgcctgac 240
accctatatg atggaggcta cttcaatgca ataatgacct tccccagaa ctatcccaac 300
agcccgccat cagtaagatt tactttctgag aattggcatc cgaatggtta tcctgatgga 360
cgtgtttgca tttctattct tcatccacct ggtgaagatc ccaatggtta tgagcttgca 420
agcgaacgat tgacaccagt gcacac 446

<210> 31350
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-B7

<400> 31350

tgatctcaa ctccaccagc gtcgtcgagg tgttctccc catcaacagc aaggtcgacg 60
tcatgtacgc caagcgcgcg ttcgtgcact ggtacgtcgg cgagggcatg gaggaggggg 120
agttctccga ggcacgcgag gacctggccg ccctggagaa ggactacgag gaggtcgccg 180
cagagggcgg cagtgatgac ggcgacgagg aggaggaata ctgatctgct tgcatgaatc 240
tgtttggtg tcgagccagg ttgtggtgtt gaaaaacctt tgtttgtgtc ctgggtaatg 300
tttgggtgtt tccttccatc atcacttgct gaactgctct agtatttgca tttgtaattg 360
aagtctgtcg ctttaagcac tcttggttct aaagatctct gtgcttttgg ggggt 415

<210> 31351
<211> 65
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-F11

<400> 31351

cggacgcgtg ggttgttttg tttttttttg tctgtttctt gctgaaaaat aagcaaaaaa 60

aggag 65

<210> 31352

<211> 218

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-F2

<400> 31352

gttgctacat tgctcgctttc aacaagatct agagttcagt ttctgagttt gggcaactgc 60

agctgctcat ctgctcaagt ttgtgctgtg atgccagttt atcccttcta gtctattaca 120

taaatgttgt tcggatctga gtctattata aacatctttg tctgagttta ttgtttactg 180

atgccagttt ttttcaatat acatttatct taaataaa 218

<210> 31353

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-G1

<400> 31353

tgctccttga tgctcgtggag ggcgttcaag agatttacag ccagcgcgtg tatgtcgtac 60

tgtccagggt ttccctttcg tgccattata ttccccaaaa gcgagaatgg aggcattatt 120

gatctccggt tagggcatga atttttgcag acgatggcca gctgacgtag ggttttgagg 180

tatcagaatg tgcataatca tgtttatgtt gtacaggtgt aaatcagcca agttattgat 240

tacaagtgtg acatgagaaa tacacattaa taaaaactcc agctcggttg tacagagatt 300

gtgtttgaac ccagaaattc atgtggttat gtcgtttgat aatatatgta cctggcaggg 360

gtgaagctag gccttttttt tgtcagctgg ccttgataat tttctggata tctaataaaa 420

aaacgatgtc aataacaag 439

<210> 31354
 <211> 309
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-055-Q1-K1-B10

 <400> 31354

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 acgaatctcg cggggcggag gtggtggccc gactgaagcg gtgtcgactc cgacgaactc 120
 gcagccaccg ggggatacgc agcagcagca cgggcgtact ccatcgacgt tcatatttaa 180
 ggacttggtt tggataattc tactcgtcaa caaaagtgat taaaaatggg gggctcttgca 240
 gcttcaatcg tttcaaagtc gggaaaagca cttgtttcaa gacagattgt tgacatgtct 300
 cgcataaaa 309

<210> 31355
 <211> 66
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-055-Q1-K1-C11

 <400> 31355

 cccacgcgtc cgaaaaaaaa aaaaaaataa aaaaaaaaaa aaaaaaaaaa aaaaaatttg 60
 taaatt 66

<210> 31356
 <211> 202
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-055-Q1-K1-D2

 <400> 31356

 cccacgcgtc cggacccacg cgtccgttca cgcgtccgaa atcacaggaa tccctcgggg 60
 aactatatgt gatgaatgat ggcatatcag aggaagctgc gaaagctcta tctgagctta 120
 ttcctgcaac tgagaagctt aaggttctcc acttccacaa caacatgacg ggagatgaag 180
 gtgctattga tattgctgag at 202

<210> 31357
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-G7

<400> 31357

gaccgctgct ccggcggtgg agaccgtggt cgtcgtcgtc aaggagcggg tgccggggcg 60
ggccgagact gagtccaagg aggtcgaggt caaggctgag gccgaggccg aggccgtagc 120
tgaggctgag ccgaccgagg cagagcccga ggccgccttg ccggcagcag agacggaggc 180
caaggaagca gagccggagg ccgccttgcc ggcagcagag acggagggtg ctgctgcccc 240
ggtcgagggt gctgagccgg agatagccgc cgagaccaa gaggtggcgg ctgtggaggc 300
taacgaggaa gaagaggagg cagcg 325

<210> 31358
<211> 117
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-H2

<400> 31358

cggaaccg gggggaccca cgcgccggg cagcgtacg cgagcctgca ttgttctcca 60
ggataaaaag aaaaggacaa acagtgtcta atacaaaag aggtgaaggg acatcca 117

<210> 31359
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-A10

<400> 31359

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gccacggcgt gcccggtgcg gccccgaaaa atcaaataca caaacttata ggctcttaag 120
cgtgttgctg ggacgggagg ggtgtaagag gagcctcaga ggggaggaag gagagggaag 180
cgggtggctg gaggtgagca ggtggcgctg tgatggatgg gggcaagggc gagtatggga 240
gaggtgatag ttggagtcag gagatgggga tgggatgagc ctatctcgac aggagtgggg 300

agtttagtag gtttagactat agttaatgcg ggagccaaat ggctaggaga aaatttacct 360
 ttgccataag cctttttccc tcttttgtct tgaaggccta aatccctcat ttgggcctat 420
 tgggtgtttta 430

<210> 31360
 <211> 175
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-B12

<400> 31360

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 taggctcctt tgtttctggg agttcaacgg aagggtctctg tatttttaca tatatcgagt 120
 gtgacagcaa attcaagaga aaaaaatatc atctgcaa atgttataggct tgtct 175

<210> 31361
 <211> 263
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-C12

<400> 31361

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 tttggcagaa tatttagcaa gtttgtatac ttcaggggta tgcagaatga agtgctgttg 180
 caaacttgct gtgtaactgc caatggcaca attggttgta ttttgcacta taatgttgca 240
 caaaatgtcg gattgcaatc ctc 263

<210> 31362
 <211> 419
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-056-Q1-K1-D10

<400> 31362

31363 31364 31365

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ccttttcttc agaaaaactt ttttggagca atgttggtgtt ccaaaaatta tctaagcctg 120
caatccactt gtcaatatatt tgaagtaaatt ctttttaagg tgttgccgaa tagagagatt 180
gaatacctat cggtagaata taattcataa tcacaactga tgatgatggc atcaccttct 240
ccgagacaaa cttcagacca caagacaaca agttgaggaa gcaagggagg ggaatggact 300
tggttgact cacgttgggt acggtcatcg gtgtaggtgc gaccggactt gggttgactc 360
atgtcgcggc tttgtcttgg actgcggngc tggtggaagc cactggcgag gagacggcg 419

<210> 31363
<211> 298
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-D2

<400> 31363

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acgaggcgta cggagtggaa ccagacataa tgaccttagc gaagccactg gccaacggca 120
ttcccatcgg cggtgtcctg gtgaaggaga aggtcgccgc agccataaac tacggcgacc 180
acggcacgac gttcggcgag gggcctctcg cctgccagac cgcgataacg gtgttcgaca 240
agatcacgag acccggtttc ctggccgagg tgtccaggaa aggggagagc ttgaagct 298

<210> 31364
<211> 99
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-H6

<400> 31364

aaaaaaaaa aaaaaaaatt ataaaaaaat taaaaaaaaa aaataaaaaa gggaaaaaaag 60
aagaaaaaaa aaaaaaaaaa aaaacaaaaa aaaaaaaaaa 99

<210> 31365
<211> 297
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-B1

<400> 31365

gtcgcacatg aggacccggt aataccatgg aatttggatg aacccttgta ttttaagcca 60
aaagttgggt ggtagccttt aaaaactctg tatataatac tgtgggtttta tcaatactat 120
ggtaattttg gggatatagaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaagaaaa aaaaataaaa aaaaaaaaaa aaaaaaaaaa aaacaaaaga aaaaataaat 240
aattgaaatc aagtaaaaat aaatttaatt aactggcaca ttaattaaca acagtta 297

<210> 31366

<211> 253

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-D12

<400> 31366

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gggctaacat gctttagat gaccaattca aagattcggg tcggatgtat tcattgttcc 120
gaagggttcc agatcgacta tcaactatta gagatgccat gacttggttac ttatgggcca 180
caagtttagca gtctgtgaca aatcaaaatc gtcggtctca gctatcgaac ttaatgtgag 240
cattgtcaaa tgc 253

<210> 31367

<211> 59

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-F11

<400> 31367

aaaaaacaaa aaaaaaaaaa aaaaaaaaaa ttttaaaaaa aaaaaaaaaa aataaaagt 59

<210> 31368

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-H3

<400> 31368

aagcttcggt ctgcagggtc tgcttgtgct ttgtaatggg cattgtagag tgagtttatg 60

tgttagtgat aggaaatagt ctaaggactg ttctacgata aagcctggag aaagctgaag 120

tggtctggtga ttataagaac tgggtggcaac tcccattcct gtggtagtcc tggctgactg 180

taaatatcgt ttgacagagc attaccatgc caactcaatc tgttgtgata ctcttgtaat 240

gactagttag ttaagttgaa ctgttgggta gatacgagat actaggttat tatcgcggtt 299

<210> 31369

<211> 409

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-058-Q1-K1-A7

<400> 31369

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attatacaga ttgtttccgt ggattacaca cagatatggt acacgaaggc agagcacctc 120

gtggcggtgg taggagggtg ccttcctgct tggctgcttg ctttactgaa cgaagcacga 180

accggggccg accggcggcc tccgagcgta gtagttcgtg acaggagccg cggcgacccc 240

acggtggttc agcaggcacc tgaagcgggtg tagccgtgac agcacggtcg tctcgacgtc 300

ctgggcggat atggcctnca gctgggtcca cagacgtctt gccgtgctg cggtcggggg 360

ccagattgtc tgcaggacgt ctgacgtgtc ggccgtctcg ccccatatg 409

<210> 31370

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-B11

<400> 31370

aaagcaatgg tcagatgcgt gcattatggt ttacccgaga gcaaagcctc atcaggcgcg 60

gtcccaggaa tccggcaagg aggagatcaa gaagcacgta ctcatctgcc gcgtgaagcg 120

ctcaccacgc agcgtgctct cgaagcggtc gccgttccag gagataggca acatcagctt 180

gccacggcat cgggtgaggac cgacgagcat ggggtggcgat gttgctctgc gacctgtgtg 240

agtgatgggg ctactgcagc ggaactacga agggttcagc tgtaagcggg agagagagta 300
gcacgtgat cgatctgatc agcatctacg caataaataa tttatgtatg acccactgat 360
gaataacgaa gcctgacttc tcgtcagatc ggtagtaata atcataagca gtcagt 416

<210> 31371
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-B9

<400> 31371

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gccgccgagg cctacctcgt cggcctcttc gaggacacca acctctgcgc catccacgcc 120
aagcgtgtca ccatcatgcc caaggacatc cagctcgccc gccgcatccg tggcgagcgc 180
gcgtagccat catctccgag gatctgatga atgtctagtt accaaaaaat aggccgtatt 240
agcgtcgttg ttctgtattc gttattttgg attcggttgc agtgaaaaac agctttacta 300
atcttatttg tggcctctgg tggttgcttc gcttctaagc gatcatctgt ggtgcaaaat 360
tcgtgctggc tattttgtca aaaaaaaact aaaaaaattg aaa 403

<210> 31372
<211> 53
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-C4

<400> 31372

cccacgcgtc cgcccacgcg tccgaaaaaa aattaaaaaa aaaaaaataa att 53

<210> 31373
<211> 72
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-C9

<400> 31373

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaggaaaa 60

ggggaaaaaa aa

72

<210> 31374
<211> 200
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-E4

<400> 31374

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ggaactctgt tttgaaaaat cattccttga gtggcataat tttccaggct atggatgcta 120
gaatggatta aggagaactg atgtgataga ctttttcttt aacgtttttt ttatccctga 180
agtaaagtca gtttggacgt 200

<210> 31375
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-G1

<400> 31375

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agcagtacga gagggactcc tctaagaccg gcagggattc acaggacgcc cttgctccgc 120
tggttgatgt tgcgctcaag ctctccaaga tgcaagagta cactggacgc tctgccccca 180
ccgtcatcac ataaattttg aagtgtttta gaatgagttg aggcgcttac acaaactttc 240
attccggcct cttgttccat agtttttctt gcatgttaca tctcaccgat gaataaaatg 300
tatgtatcag acttgtctcg ttaaaaaaaaa aaagaaat 338

<210> 31376
<211> 264
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-G8

<400> 31376

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gtctgtttgt gtaaagccaa cagatggtct gacctgacat gtgtttttcc aggagtcact 120
 acttatagaa aaagcttgat cctagagggtg gtttctcccg gcaatgcaga atcttgaagc 180
 acgtctaaag tggcttgatg atagttctaa atttcaactc cctgtcatta ccagggtgcaa 240
 aaaagaaaaa taaaaaataa tatc 264

<210> 31377
 <211> 69
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-D11

<400> 31377

cccacgcgtc cgaaaaaaaa aaaaaaaaaat tttaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
 aggggggaat 69

<210> 31378
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-F7

<400> 31378

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 caacacacac gaggtcttag cctcaataca tagtctcgcg tcctgcaggg tgaatccctg 120
 ctgtgcatca actttatttg gggatcatcag agcatttcat atccatccag atcgaccatg 180
 ctcatcggg tccaccaggc cctcgttggt cagctgatcc atgtaggctt gatgatggta 240
 cccgaactgc aggggaaggat cgttgtccag gtgctgaagg agcccctgat aaggatcaag 300
 aacatttcca cttgcgccac tgtgcccacc ttctcccag gagacacgga acgcgttctc 360
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 ccctgcttt 429

<210> 31379
 <211> 210
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-G3

<400> 31379

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gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaacaaaaa aaaatatata aaaaataaac 180
aaaaaaaaaa taaaaacaac aacaatcaat 210

<210> 31380

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-G6

<400> 31380

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atcttgaatc ctcgatctgg acatggtaga tctagcaaag tttttcatgg aaaagtggaa 180
cccatattta aggtatgtct agctgagtag aagcatgcat cttatctcaa gattggatct 240
gtgttgctgc ttctactagg aactttggta tgatctagtc atgcttccca agatcatatt 300
tagtccggtg tttcatacaa cctaagatgt ttataaatga gttgtagaca attttataag 360
ctttccacct tcacaaggta ctatcctttt ttctggtca tattctggat tctgtattt 420
tctggtgtg tgcaagaaat 440

<210> 31381

<211> 116

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-H7

<400> 31381

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tgccgtggct tatttgtagt gtcttcacct ggtggaattt ttgcacgtga gctacc 116

<210> 31382
 <211> 226
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-060-Q1-K1-B12

 <400> 31382

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 tagtgattag tgagtcatat atacttgccg tcacacatat gccggtgtac atcatgtgtg 180
 ctcagcatgt ctattctaaa aaaaaaaaaa aaaaaaaaaac cataga 226

<210> 31383
 <211> 328
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-060-Q1-K1-F4

 <400> 31383

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 ggatctgtga accccatggc gcctctgctt gattcgtgtt tcacctgtta tgttctgaga 180
 ttcatgataa tgctatgaga actgaaattc ccgtttcatg cttcttaaatt ctttgacctc 240
 tgcggttggtg ccaaagaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
 aaataaaaaa aaaaaaaaaa aaataaaa 328

<210> 31384
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-060-Q1-K1-F8

 <400> 31384

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 gtatcgaagc tgtcaggatg tccaagcgcg ccggatgggg agtgatggca agccacagga 180

gtggcgagac agaggacacc ttcattgctg acctctcagt tggcctgtct acggggccaaa 240
tcaagacggg agctccttgc cggctctgagc gcctggccaa atacaaccag ctgctcagga 300
tcgaggaaga gctcgggtgat gccgcgggtct acgccggagc aaagtccagg gcaccagtgg 360
agccctacta agaaaggaag aagatgggga tgttttcttg tggagctata ctagctcgct 420
gctgcctttt gttacaatg 439

<210> 31385
<211> 232
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-G4

<400> 31385

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agaattagtg gatgatgttg aggaattgga gaatatgtca ccaaaatcac tatggttgaa 120
agatcttgat gcttttgaga aagaactgga tgtgcttgat caaaatggat ctagcatagg 180
aactgcaaag tgaaaagagg ataaatgctg gctcaagaaa aacctcttat at 232

<210> 31386
<211> 136
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-G7

<400> 31386

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gggtaaagaa tccaagctta catacacata catgcaacga aaatgggctc ttctatactg 120
agacctaaat tcaatt 136

<210> 31387
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-H6

<400> 31387

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gcgatccaca ggctggagga gtggagcatc catatcgagg aggccaacag cgccaacaag 180
ctgggtggtga ttgacttcac tgcaacatgg tgtgctccgt gccgcgccat ggctccaatt 240
tttgctgata tgtgcaagaa gtccccaaat gttggtttcc tgaaagttga tgtccatgaa 300
atgaagacca ttgctgagca attcagcgta taggccatgc caacatttct gtgcatgagg 360
caaggcgacg tccatgacag ggtctgtggc gcaccacatg aagagctagc acggaagctt 420
gaactacaca tg 432

<210> 31388
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-C1

<400> 31388

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gcttggttgc atcgggccgg tcgagccgga gaggaaaagc tagctagcag ctaccagctc 120
tcggccggcg gtggtagtct gcctgcagct ggggttagct gcaagggttg ggagctagcc 180
atggggaggg gtcgggtgga gctgaagcgg atcgagaaca agatcaaccg ccaggtcacc 240
ttcgccaagc gccgcaacgg cctgctcaag aaggcgtagc agctctccgt gctctgcgac 300
gccgaagtcg cgctcatcat cttctccaac cgcggcaagc tctacgagtt ctgcagcgga 360
cagagcatta ccaaaacact tgagaggtat gaaaaaaca gttatggagg accagatact 420
gctgtacaga acaaggagaa ctgtgctg 448

<210> 31389
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-F6

<400> 31389

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ctagcagcta ccagctctcg gccggcgggtg gtagtctgcc tgcagctggg gttagctgca 120
 aggggttggga gctagccatg gggagggggtc ggggtggagct gaagcggatc gagaacaaga 180
 tcaaccgcca ggtcaccttc gccaaagcgcc gcaacggcct gctcaagaag gcgtacgagc 240
 tctccgtgct ctgcgacgcc gaagtcgcgc tcatcatctt ctccaaccgc ggcaagctct 300
 acgagttctg cagcggacag agcattacca aaacacttga gaggtatgaa aaaaacagtt 360
 atggaggacc agatactgct gtacagaacc aggagaacga gttagtccag agcagtcgta 420
 atgagta 427

<210> 31390
 <211> 352
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-C7

<400> 31390

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 aaaggaagct gcacgagttt gaggcagagg ctgcttctcc cccacaattg gcgtggcaag 180
 gcggaggcgg catgttgctc catgaccctc cacagccaga acacttcttc gtggctctgg 240
 agagcaacgc gcctctgcaa cctacatacc atactatgga catgaaccag cagccagagc 300
 cagcgccggg cggctgtac ccttctgcgt ggatggctta gccagcgctt tg 352

<210> 31391
 <211> 452
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-044-Q1-K1-F11

<400> 31391

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 agaacttcac gccaggtggc aagtcttcag acaaggggtga actgacaagg gccccagca 120
 agctatcatc tgcgttttct ggtactcagg ataagtgtgc agcttgccag aaaacagtgt 180

acccgctgga gaagttaact ctggaaggcg agtcctacca caagagctgc ttcaagtgt 240
 cgcacggggg ctgcatcctc accacctcct cctacgccgc gctcaacggc gttctgtact 300
 gcaagatcca cttcgcgag ctgttcatgg agaaggggag ctacagccac atgatgaaga 360
 agagcccgtc ccaggatacg ctgccggaca tggccgncga cgagcaaccg ncggaaccgg 420
 cgccaccgca agacggggaa ggagaagaca ac 452

<210> 31392
 <211> 454
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-022-Q1-K1-G12

<400> 31392

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 catgcttcaa gtgcagccac tgcaaaggga tctctcgat gtgcagctac tcttccatgg 120
 acggtgtgct gtactgcaag acccacttcg agcagctctt caaggagacc gggagcttct 180
 ccaagaactt cacgccagggt ggcaagtctt cagacaaggg tgaactgaca agggccccc 240
 gcaagctatc atctgcgttt tctggtactc aggataagtg tgcagcttgc cagaaaacag 300
 tgtacccgct ggagaagtta actctggaag gcgagtccta ccacaagagc tgcttcaagt 360
 gctcgcacgg nggctgcac ctcaccacct tctnctacgc cgcgctcaac ggcgttctgt 420
 actgcaagat ccacttcgcg cagctggtca tgga 454

<210> 31393
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-C8

<400> 31393

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 gaagaagaag gcagttgaca agaccacgac cacagatgac aagcggcttc agagcacctt 120
 gaaaaggatc ggggggaaca ccattcctgg tatcgaggag gtcaacatct tcaaggacga 180
 tgttggtatc cagtttcaga accctaaagt gcaagcatcc attcctgcaa atacatgggt 240

ggttagtgga gtaccccaga caaaaagtct gcaagacctt ctgccatcaa ttatcaacca 300
 actggggccct gataacctgg acaaccttaa gaagctggct gagattttcc agaggcaggt 360
 acctggtgct gaagcagctg cacaggatga tgacgacgtc cctgagcttg tccaaagaga 420
 gacatttg 428

<210> 31394
 <211> 441
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-043-Q1-K1-A2

<400> 31394

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 caaaagggtc tgaccctcac aaggcggctg tcattggtga caccattgga gatccctcta 120
 aggacacgtc tggccctttc ctcaacatcc tcatcaagct tatggcggtt gaatcccttg 180
 tcttcgcccn cttcttcngc cgccatggtg gcattctctt caaatggctc taagccagcg 240
 agagacgcan gataaaagcc gtagttttgc aaggcgagta gagcagtatg tcagtaatac 300
 agcatctatg gcatgtgctt ttgctcgctc agttcatgag ccccgttgtg tatttggttt 360
 ccgttttctt ggttggagtt tttagttcca aagtccgac atgttttgat cccataaatt 420
 ctcttccagc cttcgagcaa c 441

<210> 31395
 <211> 400
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-013-Q1-K1-H2

<400> 31395

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 actggttata atgcaggagc ctgttatccc aggtgtttc ctacgtgcga aggctatcgg 120
 ctttatgccg atgattgatc agggagaggc agatgacaag atcattgcag tgtgcgctga 180
 tgatccccgag tacaggcatt acaatgatat caaggagctc ccacctcacc gcttggtgta 240

aatcaggcgc ttcttcgagg actacaagaa gaatgagaac aaggagggtg ctgtgaacga 300
 ctntctacca gcgagcgccg cttatgaagc catacagcac tctatggatc tgtatgctac 360
 atacatcngt gagggcctga ngaggtaaga ttctgatggc 400

<210> 31396
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-F9

<400> 31396

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 tgttaccgag gacttcttgc cacttcccag caaagggaaa tctgggaagg atggctggta 120
 tctctctggt catggtgatg tgtttccctc tttgaataac agcggaaaac ttgacatctt 180
 attggctcag ggcaaggagt atgtctttgt tgcaaactca gacaacttgg gtgctatagt 240
 cgacatcaag atcctaaacc atctgatcaa taaccagaac gagtactgca tggaggttac 300
 tccaaagacg ctggctgacg ttaaggggtg cactctcatc tcttacgaag gaagagttca 360
 gcttttggag attgcccaag tatccgatga gcatgtgaat gaatttaaata caatcgagaa 420
 gtttaagata ttcaaacacta acaac 445

<210> 31397
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-F10

<400> 31397

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 gatttcatgg atcacaacga gcaaggatgat aggtaccgtg aattggccca taggggtggat 180
 gatgctcttg ggttcatgac tgcacggtgg cttacagtcg accacccgat aatgacgact 240
 actgacttct ggacctcgca cgagtgcctt ctcttaccct acgagcaggc tcttaccogt 300
 gaggattcca ccagtggcct tttctatgat tgttcggccc acatgttgtg gggttggtgag 360

cgcaactcgac aactcgatgg agctcatgtt gaattcctcc gtggtgttgc caaccctctg 420
ggcataaagg tgagcgacaa aatg 444

<210> 31398
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-E6

<400> 31398

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ccaagaagga agccaccctg ggggcgtcca ccttgaaatg actgggcaga acgtgaccga 120
gtgcatcggg ggatcacgga ccgtgacctt cgacgatctg agcgaccgct accacaccca 180
ctgcgaccca aggctgaatg cctcccagtc cctggagctc gcctttatca tcgcagagag 240
gctgaggaag aggaggatgc gatcggggct caacagcagc ctgccactgc cgccactggc 300
tttctgagta gccggagcca aacacaaagg agggtaggaa tagctgtggt gactcggaag 360
agaaagagac agtcgacgcc ttggtttgtt gatgcttagt gtggtgacct ggtggtggtg 420
gtg 423

<210> 31399
<211> 205
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-D10

<400> 31399

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ctcaattctg gctgaagtgc ggcattctt cgatgtgcat gatcaagaat gaagtcaccc 180
aggaggcatc caccttgaaa tgact 205

<210> 31400
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-A11

<400> 31400

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agctggaggt ccaagaaggc tttgcagctc cccgagtacc cgaacgcgga tgagctggac 180
gctgtgctga agaccatcga gacgttcccg ccggtggtgt tcgtcggaga ggctcgccgt 240
ctcgaggagc gcatggccga ggccggcatg ggccgcgcct tcgtcctcca aggtggcgac 300
tgctccgaga gtttcaagga gttccacgcc aacaacatgc gtgacac 347

<210> 31401

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-A4

<400> 31401

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cgatgtagct gggaggggtg aaagtcaact caaacttgct atcaggccta tgtattcaaa 120
ccctcctata catggtgcct ctatcggtgc taccatactc agggacagcc agatgttcaa 180
cgaatggact ctggaactga aagccattgc tgataagatc attcacatga ggcatcaact 240
atttaatgcc cctaaatcca aatgaacccc tggagattgg agccatatca ttgagcacat 300
tcggatgtac actgtgactg agctgaataa cgaacaagtc gcattcatga ggcaggaata 360
cctcatttac atgacatctg atgatatgaa catcat 396

<210> 31402

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-C6

<400> 31402

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cacgaacaga ggcaccaccc agcatggccc tgcaggcggc gtcctctca tccaccctct 120

catccgtccc caagaagtgc agcctcgccg tcgcgggcga ggacacggca ttccttagcg 180
tattccagaa ggtcagtgat cagctgcate tgcattgtgc actcgcagtc acaatgcgct 240
tgaattgaac gtgtcactca ctctgtcgtg agcatgccat gcgtgcagaa ggtgcaggcg 300
gcgtcgtgtg cggtgagagt cacttcgcca tctaccggcc cacggcaagg acgccgacgt 360
tcacggcgga cggatacgag atgagcgctg gcgtcaacca cctggggccac ttcctcctgg 420
cgcgctgct cctggacgac atgc 444

<210> 31403
<211> 317
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-A7

<400> 31403
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catccgtccc caagaagtgc agcctcgccg tcgcgggcga tgacacggca ttccttagcg 180
tattctaaa gaaggtgcac gcggcgtcac tgtccgtgaa aacgcggtgg cgactaccgc 240
gcctgtggcc acgccggggg ccagcacggc ggtcaacgat gggaagaaga ccgtgcggca 300
tgccgtggtg gtgatca 317

<210> 31404
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-H6

<400> 31404
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ggtcgaacct ggagctggag tctatcaagg agaagaccaa ggagaaccag gagaagatta 120
agctcaacaa gcagctgccg tacctcgtcg gcaacatcgt cgagattttg gaaatgaacc 180
ctgaggatga ggctgaagaa gatggtgcta acatcgatct ggactcacia aggaaaggaa 240
aatgtgttgt tctgaagaca tccaccagac aaacatatt ccttcctgta attggggttag 300

ttgaccccgga taagctaaag cctggcgatt tagttggagt taacatagac agctacttga 360
tactagatac a 371

<210> 31405
<211> 531
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-033-Q1-K1-H5

<400> 31405

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aggactgatg ctgcagtcgg tctgaacact ggggagctgg tagtcttatg caaggcagaa 120
tgaccacagg tagaacacat gagaagtatt aatgctcaac aagcatgctg tccgtacact 180
atgtcggcta catctgtcga gatattatgga aantgaacgc ctgatggatt gaggcttgac 240
agaatgatgg tagctaacca tctgatcgtg agactcacag aaggaatagg ataaatgtgt 300
atggtctaga agaccatcca ctcagacaag accatanttc cgttcctgta atatgggtta 360
gattgatccc cgataagact agaagccatg gcgaatttag tatggagtta acataagaac 420
agctacgttg atacttagat accattgcgc ttcaggagta ttgactcaca gggttaagtg 480
caatggtaag tagcatgaga aaacctaact gagggattac aaaatgacat t 531

<210> 31406
<211> 468
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-H9

<400> 31406

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agctcaacaa gcagctgccg tacctcgtcg gcaacatcgt cgagattttg gaaatgaacc 180
ctgaggatga ggctgaagaa gatggtgcta acatcgatct ggactcacia aggaaaggaa 240
aatgtgttgt tctgaagaca tccaccagac aaacatatt ccttcctgta attggggttag 300

ttgaccccgga taagctaaag cctggcgatt tagttggagt taacaaagac agctacttga 360
 tactagatac attgccttca gagtatgact cacgggttaa ggcaatggaa gtagatgaga 420
 aacctactga agattacaat gacattggcg gacttgagaa acagattc 468

<210> 31407
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-D12

<400> 31407

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 ggagctccag cgtgctcgcc aacagggcat cttcattcct actccgggag acgaccagca 180
 gccaaactct actagtga aaagtgcttt ggcgtttgac aaggactacg ctggatggga 240
 agacgagcac aggaagcaga taagcgagct gagggccgag ctcaacgcac acgccggtga 300
 cgacgagctc cggcgcatcg tggacggcgt catggcgcat caccacgaag cgttcaggct 360
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 cgtggagagg tgctttatgt ggct 444

<210> 31408
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-G10

<400> 31408

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 gagcaggagc tccagcgtgc tcgccaacag ggcattctca ttcctactcc gggagacgac 180
 cagcagccaa actctactag tgaaaaaggt gctttggcgt ttgacaagga ctacgctgga 240
 tgggaagacg agcacaggaa gcagataagc gagctgaggg ccgcgctcaa cgcacacgcc 300
 ggtgacgacg agctccggcg catcgtggac ggcgtcatgg cgcacacca cgaagcgctc 360

aggctcaagt gcgtggcagc cagggcggac gccttccacg tgctgtcggg gatgt 415

<210> 31409

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-B6

<400> 31409

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gctggggcta gctggaaagg tcgggagcca tggggagggg ccgggtggag ctgaagcgga 180

tcgagaacaa gatcaaccgc caggtcacct tcgccaagcg ccgcaacggc ctgctcaaga 240

aggcgtacga gctctccgtg ctctgcgacg ccgaagtcgc gctcatcgtc ttctccaacc 300

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aaaaaaacag tta 373

<210> 31410

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-C7

<400> 31410

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tggagggtag ctgcagctgg ggctagctgg aaaggtcggg agccatgggg aggggccggg 180

tggagctgaa gcggatcgag aacaagatca accgccaggt caccttcgcc aagcgccgca 240

acggcctgct caagaaggcg tacgagctct ccgtgctctg cgacgccgaa gtcgcgctca 300

tcgtcttctc caaccgcggc aagctatacg agttctgtag cggaccgagc atcacgagaa 360

cacttgaaag gtacgaaaaa aacagttatg caagcccaga tactgctgta cagaacatag 420

agaacgagtt agt 433

<210> 31411

<211> 344
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-062-Q1-K1-F7

 <400> 31411

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 gtgatcaaac taaacatcgt gattcatcgt gaccgtacca gttctgactc cgacggtcga 180
 cgccaccgga aagccccga tggggccgac cccggttcct cccgccgtcg ggacgcaaca 240
 ggctgctctc gccgccaag ccaatgtagc atagccagat gagccgacgg ataccgagcc 300
 aggtcccgcc agttcaaccg ttatagccaa tgcttttgcc gaag 344

<210> 31412
 <211> 419
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-062-Q1-K1-F9

 <400> 31412

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 aagaagttcc accgggtcac gcacagccgc tacgagtact cgacgccgac gtggacgggtg 120
 tttgccacgg atgatcccaa cgcgcagtgg aacatgctgg tgaagaaaga ctcgtacacg 180
 ccggcgtgcc cctacgcgta cccggacggc ggcgagagct ggcacatgac cgggcacctc 240
 tgcattcccta ggaggtgctg ctgattgtgt cattggattt tggattgcat cctccttcgt 300
 cgtcacgagc agctaccagc tactgcgacc ttcccccca aatcagtaat aaaccactag 360
 ggaattagca gggctcttgg tgcacctgat gatgacatca gcggagccct gcctctctg 419

<210> 31413
 <211> 279
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-062-Q1-K1-G10

 <400> 31413

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 aaaaaaaaaa aaataaaaaa aaaaaaaaaa acaaaaaaaaaa aacaagaaat aaattcaaatt 180
 tataaaaaaa taaaaatata aaaaaaagga gaacattaaa aatgattaaa accccaaatt 240
 aaaaaaaatt gaaaaattaa aaaaacacta tcgactatt 279

<210> 31414
 <211> 326
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-G11

<400> 31414

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 gaaaacaaaa aaacaacctt aataaagcaa cacaattcaa cacaaacaca catatacacc 180
 ataacttaca tctaacaaaa tcgacctacg catccaaaac cacagcacc c aatcagacca 240
 cagcaacggc tgcaaccctt gctagaacgc caggaacac atacccatcc cggctgccaa 300
 aaacacccgc ggactaacac tccacg 326

<210> 31415
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-G2

<400> 31415

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 ttgagaacaa cgaagatgcc cctgatgatg tcataggtgg agagggtgaa gataaggaac 180
 aggaaaagac caagcgtgag cgcaaaacaa caaatatat gacgaagtat gaacgtgcgc 240
 gcattcttgg tacacgagcc ttgcagataa gcatgaatgc tccagtcatg gttgagcttg 300
 aggagaaac tgaccctctt gagattgcga tgaaggagct taaagcgcgc aagataccct 360

ttacgatcag acggtaccta cctgatggaa gttatgaaga ctggggagta gacgagctca 420
 ttggggaaga ctccctggaaa cg 442

<210> 31416
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-G3

<400> 31416

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 ggggggattt tcagaatttt gggcactcca actaaagaaa catggccagg cgttacttcg 120
 ttgcccgaatt acaagtcaac tttcccaaag tggccacctg tggatcttgc aacggtggtc 180
 ccgacactcg aaccggcggg aatcgatctc ctatctaaga tgctgcttct agatcccagc 240
 aagaggatca ccgcccgcgc cgacctcgag cagcactact tcagggacct cgagcacgcc 300
 tagcatgata tggatggatg gatgaaccat ttaccctgcc atgctccctc tgtaaattac 360
 ggtagcagcc gagatgcttg gggccggcga gtaccgttt 400

<210> 31417
 <211> 126
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-G4

<400> 31417

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 gagagagact acaaaaaata acttaaacca gacacacaaa gatcaaaaga gagaaaccag 120
 ctacaa 126

<210> 31418
 <211> 460
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-G5

<400> 31418

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 gcaacttacg tggatcgggg ttgtttggtg ctgctgcggc ggcgagggga tggaccggaa 180
 gcgcacaaag gacgcgctcg agaagcacct ggagaggtcg tcgccgtcta cttccagggg 240
 cgctcgtgtcc aaggagaggg agcgcctcgc tgccgggaag ctgccgtcat cgcttggtcaa 300
 ggcggaagtg tctgatggtg aagaatttga aactgacagt gaagattctg atgtgagtgg 360
 ttccgagggga gaggacacgt cctggatttc atggttctgt acattgagag gcaatgaatt 420
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<210> 31419
 <211> 396
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-062-Q1-K1-H12

<400> 31419

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 gctgaagagg aggaggagga ggaggagaag cagcagcgca gccggaggag ggagagcgaa 120
 gatgcgccgc gtcgcgctgt tgctcgtcgc cgccgtgtgc gcgctggcgg cgccggctgc 180
 cgcggtcgtc actgacggtc ttctcccgaa cggcaacttc gaggatggcc cgcccaagtc 240
 ggcgctggtg aacggcacgg tgggtgctggg cgcccacgcc atcccgcggt gggagacgtc 300
 cggcttcgtg gagtacatcg agtcggggca caaaagggcc ccagggggac atgctgctgg 360
 tggtgccgca ggcgcgcacg cngtgccggt gggcaa 396

<210> 31420
 <211> 397
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-H2

<400> 31420

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cgccggcttg tacagtgggtg gccgtcgagg cggcggctac ggccgtggcg ggcgccgtga 120
 tggcggcggc ggctacggcg gtggcggcag ctacgggtggg ggccggcgcg gctaccgtgg 180
 tggcggcggc agctactgcy gtggcaaccg tggcggcggc tacagcaact tcgacgggaa 240
 ctggaggaac tgagcgggtg ggcccgcgcg gacaagttat cctgttcgct accgtgttgt 300
 ttaccctagt ccagagtgtt tatcttcggg cgactcgctt ttgctgttgc ccactctgtg 360
 ttttgattga aggtcgctct gtgtcagttg ttagtg 397

<210> 31421
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-H7

<400> 31421

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 cggggccgct agctccacct tctgagctc cgccccgagc gcgatgtggc gagcgacgag 120
 gcggtctccg ccgttcctgc gatggctatc gtcggacgca gcctcctcta aggcgccgcg 180
 gcagcgcgta gcggcgctgt gggggaacgg tgactacggg cggctggggc tgggttcgct 240
 ggagtcgcgg tggagcccca cggtttgccc cttcttctc gcccgcgccg gcgaccgcc 300
 cgcttctc gcctgcggcg gcgcacatac cctcttctc acccagaatg ggcgagtgtt 360
 cgctacaggg ctgaacgact ttgggcagct tgggatagga acctctggta cacatatgct 420
 ggagccctgt gaaatttctg ga 442

<210> 31422
 <211> 403
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-062-Q1-K1-H9

<400> 31422

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 taaaaaaaa aaaaaaaagg aaaaaaaaa aaaaaaaaa aaaaaaaaa aaaaaaaaa 120
 aaaaaaaaa aaaaaaaaa aaaaaaaaa aaaaaaaaa aaaaaaaaa aaaaaaaaa 180

aaaaaaaaaa aaaaaaaaaa gggggggggcc ctttaaaaga tccaaaattt acaacccccgg 240
 aaatgcaact aaaaaatttt tcaaagggga ccccaaaata aaatacaggg gccggattta 300
 aaaaacgtag aaacgggaaa aacctgggat aaaccaaact aaaaaaatt tacccttgga 360
 aaaaaatccc cttttcccaa agtggcgtaa aaccaaaaag gcc 403

<210> 31423
 <211> 430
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-062-Q1-K1-F12

<400> 31423

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 attctcctcc ctgcgcgtgt accaggactt ctgcatcgcc gacctatccg ccgccgccac 180
 gccggggcgc taccctgtga agcccccgaa ggacgtgacc gccgacgact tccactatgg 240
 cggcctcgcc acccccgga cggcgctgaa acccttcaag atctccctgg gctcggccgt 300
 cgtcaccacg ttccccggcc tgaacgggct gtggggnncc ccattctctgc cgcgcggtatg 360
 gtgatggtcc cgggcgccgt cgcgccgctg cactcccacc cgggaggcac cgagctcatc 420
 ttggtcatcg 430

<210> 31424
 <211> 353
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-D10

<400> 31424

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 cttctgatcg tcacccatgg ccaactgccga ggtccagacc ccgaccgtcg tggcgaccga 180
 ggaagcgccg gtggtggaga ccccggtcc gcccgccgtc gtgcccagg aggctgcccc 240

cgccggcgaa gccaaagtgg aagagccagc tgccccggcg gagaccgagc cagctgccgc 300
cgctgagccc gaggcggccc ccgtggcggc aggagagggg ggaaaagaga cgc 353

<210> 31425
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-D11

<400> 31425

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cacaaacacc acctgcccac tctgccgagt atcgctcctt cccgccccca aggcaaccag 180
caccggactg gatctggaag cacagactgt ggtagaagag gagtccccga acgcacatca 240
tcgccaggag gagggactag ttgatgccaa cacaccacag gaaggtagg cggccgtagg 300
tgacggagca agtagcgtcc agattgaaga acccccccg ggcaccacga tgcggccgag 360
ccactggtag tgacgggtggc cgctgtcgtc gcacctcacg ctgacgctga aggttcaccg 420
agtacagca 429

<210> 31426
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-D12

<400> 31426

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cggcgccac cgcccgccgg gcgctcgtca cggcagaagt gcctgcggag gccgccgagg 180
actccacgtt tgtggagacg tggaagaagg tcgccccaa cattgagccc ccaacgacgc 240
ccctcttgct catgcagacg cgcccgcca cgccggtac cattccac 289

<210> 31427
<211> 470
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-D2

<400> 31427

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ggggcgcgga ggaagatggg gctcgcgttc gggaagctct tcagccggct cttcgccaag  120
aaggagatgc ggatcctcat ggtcggcctc gacgccgccg gtaaaaccac catcctctac  180
aagctcaagc tcggcgagat cgtcaccacc atccccacca tcggtttcaa tgttgaaact  240
gttgagtaca agaacattag cttcactgtc tgggatgtcg ggggtcagga caagatcaga  300
cctctttgga ggcattactt ccagaacacc cagggcttta ttcttgttgt ggacagcaat  360
gaccgtgacc gtgttgttga agccagagat gagctccaca ggatgctgaa cgaggatgag  420
ctacgtgatg ctgtgctgct tgtttttgcc aacaagcaag atcttcccaa   470

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<210> 31428

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-D3

<400> 31428

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ttacggggca caatatagca agagctgttg cttacagagg agcaactgcc gtatatggct  120
tcattctgcc gtggcttgac atgctcgtgt cagacatgct ctccgtctgg gccatcacac  180
tcagcattct cctctgtggc tacagcttat acttcctat atcaatatac aatcctgccg  240
ttagtgccgc tatagcagct ggtggcggat ggggc   275

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<210> 31429

<211> 479

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-D7

<400> 31429

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acgggggggac cgtccagacc ctccggcgct atcacgctat ggcccatact gttgtgctca 120
 aggttggtcat gtccattgag ggctgtattg gagctgtcaa gcgtgtcctg ggcaagatgg 180
 aaggcgttga gtcctacgac gtagacatca tagaacaaaa ggtcacctgt aatggcaatg 240
 ttacacctga cgccgtcctg caaactgttt ccaagactgg caagaagact tcgttctggg 300
 aggctgacgc cgtgacaagt gaatccgtca cacctgccgg tgccaacttc tgacaagttc 360
 gatgatcacg aagtgccctg caaggcagct aataaaaaaa tgtgaatgta tctagcttgg 420
 aactgttaca aataatttca aactgctaac tcggtctgga cattttacat ttgctattc 479

<210> 31430
 <211> 188
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-D9

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 ttgacacatc aaatggcctc caatctacac tgccgctcaa cataccgcta atgccataac 180
 gaacgaag 188

<210> 31431
 <211> 286
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-E10

<400> 31431

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 ctgccaccgc ccttcgggtgc atgcctccgc taccgcttgc cgaggctgcc tacaggcctc 180
 tcgtcgagcg tgaggaaggg agggctcctg ccgctgccgc tcctgggtgcc tcccagggcc 240
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<210> 31432

<211> 143
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-062-Q1-K1-E12

 <400> 31432

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 catctcggcg ttgtcgtcgt cgccatggcc atgcaccgca accggtcaac tggggcgcgaa 120
 gccctgggtc accggcgtca cca 143

<210> 31433
 <211> 468
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-062-Q1-K1-E3

 <400> 31433

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 tctatcttgt tttttattat tatctaaaat aaccgatgaa ttatgaattt tccataactt 180
 aaacttacgt aagtgcctta ccaacatatg tagtgtacta aaaaaaatgg aattgaaccc 240
 cttcatgctt actataacta gttatttcgg ttttctactg gctgctttta ctataacccc 300
 agctctatct attagcttga acaagatacg tcttatttga aatgaattga atagaataat 360
 ctttcttttg gattcttggg attctagact cttttccaca ctaattacca attcttttct 420
 tggtcattga gattcgtggg tagtttagac tattatttag agatagat 468

<210> 31434
 <211> 467
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-062-Q1-K1-E6

 <400> 31434

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gcgtctcagc ttgctcagca gaaagagttc aacttgagga agcctccatc cttccactac 180
gatttgcttc tcttaggttt cctgacgtta atgtgtggcc ttattggtat cctccatca 240
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atccttcgta accggctagt agccaccgca cggaagggca tgagccagaa tgcaagcctg 360
agccaactgt atggcagcat gcangatgct tatcagcaga tgcagacacc actgggttat 420
cagcaacagt ctgtcagaag aggcttaaata gagctcaagg actcaac 467

<210> 31435
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-E7

<400> 31435

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caagggtacg ggtacggcgc catgtcgtca gagctggagc tctgctggc gcgcatcagg 180
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gaggcgctgg ccgcgagct ggccgacgag cggcggcgga gcgaggccgc ggaggccgag 300
tgccggggcg tgctggagga ggccggcgcc tcgcgcgcg atgcggagcg cgccttgaa 360
ggcgtcgagg aggagcgcg gatgctgcgc gtcgccagc tgtggcgga ggagcgggtg 420
cagatgaagc 430

<210> 31436
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-E8

<400> 31436

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tctatcttaa gatttattat catctaaaat aaccgatgaa ttatcaattt ttcattatctt 180

aaacttaaat aaatgcttca ccaacatatt tattgtatca aaaaacatgg aattgaaccc 240
 cttcatgctt actataacta gatatttcag ctttctactg gctgctctaa ctataacccc 300
 agctctatct attatcttca acaaaaatagc tctcatatta aaccaattga ctagaataat 360
 cctacttttg gattccttat attctaaact cttttccaca ctaatcacca aatctattc 419

<210> 31437
 <211> 301
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-E9

<400> 31437

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 aggtgtgtgt tacatgaaga ccatatgtga gctagcgatg gcttcttgag gtgatggctg 120
 tgtttgtaca tgaaaaccat atgtgagcta gcgatggctt cttgaggtga tggcttctat 180
 gagatagctc tatgaggcca gggtcgtcac tgggggatga aggtcctgaa aaatatagtt 240
 actgctctgt acatgtgccg gtacatttca ttcaaaaaag gatggcacia ggacatggcc 300
 t 301

<210> 31438
 <211> 366
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-F1

<400> 31438

cccaggcgta cgcctcctac acctaagctt tttagccta cgtacactac aagccctaag 60
 gggggaccta ccaagcctcc cagcgccaa cggacccgc caacgtacac ccctgcagca 120
 aagcctccga caccgaagcc gtccccggct acgtacacc tttctacca gcctacgacg 180
 cccgaccga ccccgctac agccactcca agcccaagc cttccacaca cccaactccc 240
 aagccgaccc caccgacgta cagccttcc ccaaagcctt cgacgccaa gccgacccca 300
 ccgacgaaca tctattcctc atagcctcct acacccatgc ctacaatacc gacgtacact 360
 ttcaca 366

<210> 31439
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-F10

<400> 31439

cgggcgcgctc cgcctacgcg ttcgatttat ttgaggatgc gagcaagaac aaggaggtga 60
ggtagtttga gcgggtgggg cgcaggcgct acgagtactc gacgcctacg tggacggtgt 120
ttgccacgga tgatcccaac gcgcagtgga acatgctggt gaagaaagac tcgtacacgc 180
cggcgtgccc ctacgcgtac ccggacggag gcgagagctg gcacatgacc gggcacctgt 240
gcatccctag gaggtgctgc tgattgtgac attggatttt ggattgcatc cttcttcgtc 300
gttacgagca gctaccagct actgcgacct tttattccca aattagtaat aaaccactag 360
ggaattagca gggctcttgt tgcacctgat gatgacatca gcggagccct 410

<210> 31440
<211> 182
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-F11

<400> 31440

aaaggaggaa gaggtggctt atgatgcatc taaggaagtg aaacaactta tatgtgaact 60
tagatctctg tattgaactg attgtgtgaa cttgtctgtg tgaaactttt gtgtgtgaac 120
ttgatggcta tgtgaaactg ttgtgtgcta acttgatggc tttatgaaac tactatgtga 180
ag 182

<210> 31441
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-D1

<400> 31441

cacaaggtct acttcgacat cgagatcgac ttgtaagccc gcaggccgga ttgtcatggg 60

gctgtttggg aagactgttc ctaagacggc agagaacttc cgagctcttt gcacaggaga 120
gaaaggggtt ggcaagagtg gcaaagccct cactacaag ggaagtaagt tccacagaat 180
catccccagc ttcattgtcc aaggaggtga cttactctc ggggactgga ggggtggtga 240
atctatctac ggcttgaagt ttgcggatga gaacttcaag atcaagcaca ctggtccagg 300
ccttctgtcc atggccaatg ccgggagaga taaaaacgga tcccagtttt tcatcaccac 360
agtgacaaca agttggttgg acgggaagca tgtggtgttt ggcaaggtgt tgtctggaat 420
ggatgttgtg tacaaggtcg 440

<210> 31442
<211> 427
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-062-Q1-K1-A12

<400> 31442

gcgtccgcgg acgcgtgggg tgaaccagaa ggctcttttt cctggcgact ctgagatcga 60
tgaggtgggg aagattttca gaattgtggg cactccaact aaagaaacat ggccaggcgt 120
tacttcgttg cccgattaca agtcaacttt cccaaagtgg ccacctgtgg atcttgcaac 180
ggtggtcccg aactcgaac cggcggggaat cgatctccta tctaagatgc tgcgtctaga 240
tcccagcaag aggatcaccg tccgcgccgt cctcgagcac gactacttca gggacctcga 300
gcacgcctag caggatatgg atggatggat gaaccatttt ttcnngcccc tcccctgctc 360
cctctgtaaa ttacggtagc agccgcgatg cttggggccg gcgagtaccg gtttgggcgg 420
acgtctt 427

<210> 31443
<211> 414
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-062-Q1-K1-A3

<400> 31443

ccatttcccc atctcccaga tccaattctc tagttcttcc tcctctgccg ccatggcgct 60

ggctgtggag aagacctcgt ctggacggga gtacaaggtc aaggatctct cgcaggcgga 120
cttcggtcgc ctcgagattg agctggccga ggtcgaaatg cccggcctca tggcgtgccg 180
cgccgagttc ggcccgcca agcccttcgc cggcgctagg atctcggggt ctcttcacat 240
gaccatccag accgtcgtcc tcacgagac cctcaccgcg ctcggcgccg aggtccgctg 300
gtgctcctgc aacatcttct ccacgcagga ccacgccgtc ggcgatcatg cgcgcgactc 360
ggccgncgtg ttcgcctgga aaggggagac cctagaggag tactggtggt gcac 414

<210> 31444
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-A4

<400> 31444

cggacgcgtg gggatgaacca gaaggcgctt tttcctggcg actctgagat cgatgagctg 60
tggaagattt tcagaatttt gggcactcca actaaagaaa catggccagg cgttacttcg 120
ttgcccgaatt acaagtcaac tttcccaaag tggccacctg tggatcttgc aacggtggtc 180
ccgacactcg aaccggcggg aatcgatctc ctatctaaga tgctgcttct agatcccagc 240
aagaggatca ccgcccgcgc cgacctcgag cagcactact tcagggacct cgagcacgcc 300
tagcaggata tggatggatg gatgaaccat tttccctgcc ctgctccctc tgtaaattac 360
ggtagcagcc gcgatgcttg tggccggcga gtaccgctt 400

<210> 31445
<211> 280
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-A5

<400> 31445

ctcatgaaag gctcagacca atacaagctg ttgtaacagc catggcttca gcgaagcaga 60
gggagaaaat gcgcatactt ctgatcccat tcttcgccac cagccacatc gggccctaca 120
ccgacttcgc cgtccgtctc gcagcggcca ggccaggagc cgtcgagccc accgtcgccg 180
tgaccccggc caacgtcgcg gtggcccggt cggcgctcga gcgccacggg cccgcggcga 240

gcggcacggt caggatcgtc acgtaccggt tccgcgcgt

280

<210> 31446
<211> 431
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-062-Q1-K1-A8

<400> 31446

ccaagtgtcc aggcctggcc tcgcactgct ggtccaccgg ttgtcatgaa ccccatcagc 60
cggcgtaact tcatcgtcaa gtccactgag taggtttggg ctggagaagc tggttctgcg 120
acttgggtgcc gccatgaagc cagagttcct tttctaaggt cttaatcaat tgtaataaaa 180
cgaaatacag tcaggatttt tttgtgattt tttacttgat ctgtgagcga aactggggtc 240
tttcaccttg tcatccaatg ggttctgctc cttggtgaaa tctcccacca gccagtaaag 300
aactgggttg ttttcataat atatgctttt gctacgcagc ctctgttggt gtaaggaatt 360
gcattggtat cttatatcac tgnatgggtga tgtttaacta gtttgttgat gtgccgcttg 420
tggttgggggt t 431

<210> 31447
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-B1

<400> 31447

cccacgcgtc cgcccacgcg tccgcggact cttgggcgat cagctgaatg gagtgcata 60
gaggggagtt catgatctgt ggagagtgtc gaaggatgag atttgcttgc cactgatgat 120
atcattgtgc caactgaacg gtctgcgctt gccgccttgc ttgatggctt tgcttgcctga 180
tctcaagact aaggatttgg ggtttttacc tgggggttgat cttgcaaagg ttgagtgcac 240
atgcaaggaa atgatgaatc ttgcatcaga tgatagtatc tggaagaagc ttgtatccaa 300
gtttgaaaat tatggcgagg gctctaagct ggcaggcaag aatgcaaagg ccatatttgt 360
agaagcttgg caggccaata agagacggca gaagaggccc aatccaacct tttggaact 419

<210> 31448
 <211> 108
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-062-Q1-K1-B10

 <400> 31448

 atgacagctc gagaaaaccc cctaactcgc cacaccgtgt aagacgtggg gcaaggtctc 60
 gaatgactgg cgtaaattgca cgtagcggga atcgtttgaa agtgaaag 108

<210> 31449
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-062-Q1-K1-B2

 <400> 31449

 ctcgacaacg aggccatcta tgacatctgt tttcgctccc tcgacattga gagggccaac 60
 tgcgccaacc tgaatcgctt tgtgtctcat gtgatctcat ctctgactgc ttccctgagg 120
 ttcgatggtg ccctcaatgt ggatgtgaac gagttccaga ccaacctggt tccttaccgc 180
 aggatccact tcatgctctc ctctacgca ccggtgatct cttctgcgaa ggccttccac 240
 gagcagctgt ctgtggcgga gatcaccagc agcgcgttcg agccggcttc catgatggtc 300
 aagtgcgacc cacggcacgg catgtacatg gcttgctgcc tgatgtaccg cggcgacgtg 360
 gtgccaagg acgtgaacgc cgcggtggcc accatcaaga cgaagcgac catccagttc 420
 gtggact 427

<210> 31450
 <211> 221
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-062-Q1-K1-B6

 <400> 31450

 cccacgcgtc cgcccacgcg tccggatcta ttgttgctgc aatgcaagcc ttcacgtgtg 60
 ttggcctctc tacctaaaga ataaatcaag ctagcagcaa acctaccttc ggcgtgtgtc 120

tacttgctta tcatagtgtg tgtccgtgta tgagagatga tgtactgtca cgaactcacg 180
 tgtgtatgag agaggatata tggtaagact atcactacta g 221

<210> 31451
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-B7

<400> 31451

ctcatgaaag gctcagacca atacaagctg ttttaacagc catggcttca gcgaagcaga 60
 gcgagagaat gcgcatactt ctgatcccat tcttcgccac cagccacatc gggccctaca 120
 ccgacttcgc cgtccgtctc gcagcggcca ggccaggagc cgtcagagccc accgtcgcgcg 180
 tgaccccggc caacgtcgcg gtggcccggg cggcgctcga gcgccactgc cccgcggcgga 240
 gcggcacggg caggatcgtc acgtaccggt tcccgcgcgt ggacggcctc gctccggggcg 300
 tggagaacct cttcaccgtc ggagacgacg cgtggcgcat cgacgccgtc gtcatcgacg 360
 aggccctctc gcggccggcg caggaggcgc tcctcagggg gcggtcccc gacgccgtcg 420
 tgtcggacta ccactttctt t 441

<210> 31452
 <211> 464
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-062-Q1-K1-B8

<400> 31452

cccacgcgtc cgcacacgag tccgccgcga ctctctctct ctttcgccga gtcctctgaa 60
 accggangag cgtgcttgac cggcggcggc gaggtgatgg cgatggaccc tgacgcggta 120
 gcgaaggcct tcgtggagca ttactaccga acgttcgaca ccaaccgcgc ggcgctgggt 180
 gggctgtacc aggagacctc catgctcacc ttcgagggcc agaagttcca gggccccgtcc 240
 gccattgccg gcaagctcgg atctctccct ttccaggcct gcgagcatca gatcgtcacc 300
 gtcgactgcc agccatcggg tccccagggg ggcagctcgt tcttcgtctc cggttccata 360
 cgcaccggcc ccgaagagca ccccatcaag ttctcccaag cattccattt gctgccggcc 420

gctgggtcct tcttcgtgca gaatgacatg ttccgcctga acta

464

<210> 31453
<211> 176
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-C1

<400> 31453

cccacgcgtc cgaaaaaaaa aaaaaaata tataaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaagaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaataa aaaaaaaaaa aaaaaataa aaccaa 176

<210> 31454
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-C10

<400> 31454

cggacgcgtg ggcggacgcg tgggcgtgct gcttgggcgg acgcgtgggt ctgaattgct 60
cagaactgta tcattaatca aaacctctgg tggactgctc atttgactc tgccaatgtg 120
cagtcattaa gaatgtcctg ccctagtgcg gtggtgaggg ctgtctctct gaatcctcag 180
gtcgcgggtc gaatcagtct atctacattt atggggaaaa gcttgctctc atttatctct 240
tccatagacc ccccccccc cctgcgaacc tcgggtactg ggtctgtttt attccttggt 300
agtcgatact ggcacctttg agtttctcgt gtgggggttt tttagcctgg tcaattgtat 360
gagctgatta gtgctgagtt tagagctaaa caagtagagg tacattccac atggtagaca 420
tgttttatat t 431

<210> 31455
<211> 425
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-062-Q1-K1-C11

<400> 31455

cccacgcgtc cgagacaatg tcactctttca ctagtccaag tataactgcc atctcatgga 60

gaggatagaa gctggaaatg ccctgcacag agctttcagt gttttccttt tcaactccaa 120

atatgagttg ctactgcagc aaaggtctgc aacaaaagtg acatttccac ttgtctggac 180

aaacacctgc tgtagccatc ctctctaccg cgagtcagag ttgattgagg aaaattgtgc 240

aggggtgaga aatgcagccc agcgcaaact atttgatgag ctgggaatag tggctgacga 300

attacctgac gaccagttca ttccgcttgg gnaaaagggg ggatgcttta caaggctcct 360

tcagatggaa aatggggcga acacgagttg gattacctct tgttcatggg tcgtgacgtg 420

aagct 425

<210> 31456

<211> 364

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-062-Q1-K1-A11

<400> 31456

aatcactgaa agtgggaattg gaagctgtaa aacaggagca caaccagctc aaagagaaag 60

acacagaaac tgaatccatt gtcggagatt tacatgtcaa gcttcagaaa tgtaaactctg 120

tgctggaggc tgctgtggct gctgaatcaa aagctacgtc agcttctgat gacctgatgc 180

tggcccttca gcaactgtcc gcggagtcaa acaatgcatt gcaagaagct gagataatgc 240

agaagagtgc ggcggagcta agaggnnnaa aggggaagcc aaaaaggctc gggctgaact 300

agcagaagcc gaacaaaagt tgcagttgac gttaaaggaa gcangagagg ctaaagcagc 360

tgaa 364

<210> 31457

<211> 126

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-C2

<400> 31457

acaaagcata acaccaactt aaaaaaaatt ttaaacaac aaaaagacaa acaccataac 60

gtatcaattt aacatttccc aagactccta aaaactaaca aaccaatata acaactaaaa 120
 ttaaaa 126

<210> 31458
 <211> 125
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-C3

<400> 31458

cccacgcgct actccaacta tgaaatctgt ttgcacccca cagacattaa gacgccttag 60
 gagtgcatta taaaatgtct tgtgactcat aaaaactcac atgttacttc ttcctttaat 120
 atcaa 125

<210> 31459
 <211> 185
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-C4

<400> 31459

gaataccggc tcgacccacc gtccgtcggg tcaatccgag tacgcgccgt ctacctcgaa 60
 gcccgcgagt gggccgacgg cggatttaag aggccagcag gcgcctacaa tctatcacct 120
 cacgagcatc tctagcattc caccaggctc ccaactgcttc gtgcccgcac cccctgagcc 180
 caacc 185

<210> 31460
 <211> 477
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-C5

<400> 31460

cgggcgagcg ctgaacctga acctggtggg ttatccggac ctggtggcga gagacccccgt 60
 gggggccttc aagacggcca tctggttctg gatgacgccg cagtcgcca agccctcgtg 120
 ccacgccgtg atgaccggcg actggaggcc ctccgccacc gaccgcgccg cggggaggct 180

ccccggatac ggcctgacca cgaacatcat caacggtggt ctagagtgcg gcgaggaccg 240
ctccaccgac ggcgccaaag ccgccaagga ccgggtcggc tactacaaga ggtactgcgg 300
tatgctcgga gtggggtacg gggacaacat ggcattgcgg agccagaagc cttacggagg 360
atgatgacac tagtagctga tctatggttg ctgcaatgca agccttcacg tgtgtttgcc 420
tctctaccta aagaataaat caagctagca gcaaacctac cttcggcgtg tgtctac 477

<210> 31461
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-F9

<400> 31461
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ccatctcggg ggcataatatt atacactccg aaggcacaaa actcatactt agtgacctaa 120
atacaaaaac catgtcctta aactacaaa atcacacact ttacaatcta actcctatcc 180
ctactaatca tattccatca catatcctgc accacatatt tactaataac agatagctac 240
acacaattct tacacatatt cagatactca tacttattat ccattccttac tcgaattgca 300
ctacatttct ctaaccct 318

<210> 31462
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-G1

<400> 31462
cccacgcgtc cggcagcctg agcaccgat tagactccgt gcgaccgaag ccagagccgg 60
gggaaccgaa cggaagcgag acccccggcg gctagcgaga tggacggcgg cgccggcgag 120
gaggggaagc aggagcggca cctggtgctg gccacaagc tcttccttct atcccccccc 180
tccgttgatg acctctccaa ggtcgccctc cgcgccgaag tcctcgacac cgtgaaatcc 240
gatgatatgg cgacgctggt tgagtcgctg gtcgcccgcg gtgtgctgga gggggacgcc 300
gcgctgctgg ccgagatgcg tgggaggatt gacgaggaga tccgcaagct agatgagaaa 360

attgctgatg cggaggagaa cttgggtgag agcgaagtcc gtgaagcaca tcttgccaaa 420
tctttgtact ttataagggg cggtgag 447

<210> 31463
<211> 249
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-G11

<400> 31463

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atagacagta tactgtccta cggattttca aggtccgacc atggcacacc ggacacctcg 120
caatctacgt cgctcttccg gccgctggac cctacctcca gctgaaccga ttccatggac 180
gactgtccgt taagcataaa agataactct tcccgaggcc ccctccagca gtctacatac 240
tttctaaca 249

<210> 31464
<211> 468
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-G3

<400> 31464

ccggccgacc gacgcgtccg gtctgattac tattagcgat tggttgtctt agataggggtg 60
tcgggtgtcc aatgttttgg ttggtttttt ttacaggaga gagagctggc caaggctgcc 120
gggaaactgg ccgactgcca gaagacgata gtttactga gcagccagct gaaatcgttg 180
gccgatttcg acgagttcct ccctgaaacc gagactagtgc gcgccgactc agccgacgcc 240
tgggacggcg acctgaagct gctccaccct gcaagctatc ccacgcagat tggctgtttg 300
gcagtcacat gagtcacgat cctcgttggc aggtgggcgg agaaactgtt tttgttcggg 360
ttccaccgca tgattgctgt ggtgagattg ccatgatctt ccaccacatg ccatatagag 420
ttaagtttat aatagtctat aggtgagaaa atgttcatat gaaagctg 468

<210> 31465
<211> 435

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-061-Q1-K1-G6

 <400> 31465

 cacagagaca tcagagagcg gtccttcatg tgagtctgag ctgaagagga ggaggagggg 60
 gaggagaagc agcagcgag ccggaggagg gagagcgaag atgcgccgcg tcgcgctgtt 120
 gctcgtcgcc gccgtgtgcg cgctggcggc gccggctgcc gcggtcgtca ctgacggtct 180
 tctcccgaac ggcaacttcg aggatggccc gccaagtcg gcgctggtga acggcacggt 240
 ggtgtcgggc gccacgcca tcccgcggtg ggagacgtcc ggcttcgtgg agtacatcga 300
 gtcggggcac aagcaggggg acatgctgct ggtggtgccg catggcgcg acgcggtgcg 360
 gctgggcaac gaggcgtcga tccggcagcg cctggccgtg gcgcgcggcg cctactacgc 420
 catcacgttc agcgc 435

<210> 31466
 <211> 87
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-061-Q1-K1-G7

 <400> 31466

 acccacgcgt ccgaaaagac acaaaaaaaaa ttcaaacaaa ttaataaaaa caaaaaaaaa 60
 aaaaaaaaaa agggagaaat attaaaa 87

<210> 31467
 <211> 247
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-061-Q1-K1-G8

 <400> 31467

 ctgggagcca atgcaggctt cgagtacatc atccaacttt aaatgttcaa gtgcttatca 60
 caaacatgaa aggctgtgat agagaaatgt tgcttcactg accaaacatc atattcatga 120
 taaatgatct atgtgtcaag attaggaggg aactgtgcta tggagatcac gacttatgac 180
 tctaaccaat aatgatgatg agctagaaag gtaaaatc atgcacaatg actgatgtct 240

ggacccg

247

<210> 31468
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-G9

<400> 31468

tcggcattcc ctcacgctag gattatgctt cactaacctg ctagtgctta ttatcgggtca 60
agggcaccat aatTTTTtact agaagtggaa gagttacaca aagttcgca aatgatcaca 120
agggtttatg cactaagaac aggcaagcct ttttgggttg tatccgaaga catggaaagg 180
gatgttttta tgtcagcaga ctaagccaaa gcttatggac ttgtcgatat tgtaggggat 240
gaaatgattg acgagcactg cgatactgat ccagtgtggt ttctagaaat gtttaaggat 300
tggtagtggg ttgatttctt ggtaatttat cttaaacta aattccggtt ttatgctata 360
gaaaatagaa atactttatg att 383

<210> 31469
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-H10

<400> 31469

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cacagggtggg gagacttggt ataaagagga ggaggcacac gaacaggccg taccaagaga 120
atctgctcaa catggctgaa gctcggcggg agatcgctac cgccctcaag atccaccggg 180
ccagcagcag gaggcacag caaccgaagt accagcgta tcaggagccg ccgctgcgtc 240
aaccaccgtt tgcacagctc cagcaacagc aagaatagcc gaagcacgtg caagaggcgt 300
atctggatcc aagatgaagc caaccgaagg gtgacgaaga agcatctctg gcacatacca 360
ctatgaaata cgccatcttc actaacaacc cg 392

<210> 31470
<211> 229

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-061-Q1-K1-H12
 <400> 31470
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 agggctacat cccgctcacc acctacctcc gcacctacaa gatcggcgac tacgtcgacg 120
 tcaaggtgaa cggcgccgat cacaagggga tgccatacaa gcactaccac agtcgcaccc 180
 gtcgagtatg gaacgtcacc aagcgcgcca gataccacaa cataaaciaa 229

<210> 31471
 <211> 422
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-061-Q1-K1-H2
 <400> 31471
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 aagcctccta aggggtgttct acgctacggc cctacaggaa ctgggaagac cctattggca 120
 agggctatcg caagtaacat cgatgccaac tttttgaaga ttgtttcaag tgctattatc 180
 gacaaatata ttggagaaaag tgctcgtttg attagagaaa tgtttggtta tgcacgtgac 240
 caccaaccat gcacatctt catggatgaa attgatgcta ttgggtggtcg aagatttagt 300
 gagggaaacta gtgctgatcg tgagattcag cggacgttga tggagctcct taaccaatta 360
 gatggatttg atgagctagg aaaggtaaaa atgatcatgg ccacaaatcg acctgatgtt 420
 ct 422

<210> 31472
 <211> 207
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-061-Q1-K1-H3
 <400> 31472
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 aggaggaatt tattaataaaa aaaagggaata acaaaaaaaaaa ggacgacctt tctgatgcat 120

ccttgcttcc gaatgcttgc atcctaattc atatcctttc ttttgtccaa acttaattca 180
attgactgcc cttttacttc caacttc 207

<210> 31473
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-061-Q1-K1-H4

<400> 31473

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aaccagctag ctctggcggc agcaggcagc catcatgtcg gaggagaagc accaccactt 120
cttcaaccac cacaagaagg acgaggagca gcccgccggc gagtacgggt actccgagac 180
cgaggtggtc accgtcaccg gcgagggcga gtacgagagg tacaagaagg aggagaagga 240
gcacaagcac aagcagcacc tcggcgaggc cggcgccatc gccgncggcg ccttcgcact 300
ctacgagaag cacgaggcga agaaggaccc cgagcacgcg cacaggcaca agatcacgga 360
ngaggtcgct gccgcggcag ccgtcggcgc cggcggtac gtattccacg agcaccacga 420
gaagaagaa 429

<210> 31474
<211> 445
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-061-Q1-K1-H7

<400> 31474

cccacgcgtc cgcggactcg tgggcgaaat tttatgcaga accctcagct gcaggagggg 60
gaattccaga actttccgac ttcttaccta cgctgtgctg ctcatcgtgt tgcacaacat 120
tatggcttag agactatagt ggcagatagt ttagtagaag gctcagttag caggatcggt 180
gcaagaaaaa caccagagag caggtgtcct gcaatttcat tagcagaagt tcctagcaaa 240
caagcaagaa atgatcatga agcagcagag aagcttaagt ttgtcattta tcaaaggccc 300
aaagcattcc aaaatggaag cactgatttg ggaaacaaga atggtgcacc aaaaactggt 360

gaagagagaa tagaggaata taataaagca cgagcacgca tcttcaatgg ttcntgttct 420
gcagattctg atgctgcaag tgttt 445

<210> 31475
<211> 87
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-H8

<400> 31475

cccacgcgtc cgaaatttaa aaaaaattaa aaaaaaaca aaaaaaaaaa aaaaaaggg 60
gaaaatttaa aaaataaatg gggcctc 87

<210> 31476
<211> 253
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-F8

<400> 31476

cccacgcgtc cggtcgaaaa aaaaaataat aaaaaaaaaa aaaaaaaaaa aaaaaaaag 60
aaaaaaaaataa aaaaaaaaaa agaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaattaaa acaaattaat 180
aaaaaaaaaaaa acatataaaa atacaaaaca aaataattaa taaaaaaata aacccataac 240
aatataaaat taa 253

<210> 31477
<211> 313
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-H9

<400> 31477

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caggtagga ggaggaggac gcacacgagc aggccgtacc aagagaatct gctcaacatg 120
gcggaggcgc ggcgggagat cgtcaccgcc ctcaagatcc accggggccag cagcaggagg 180

cagcagcaac ccaagtacca ggcgtcatcag gagccgccgc tgcgtcaacc accgtttgcg 240
cagctccagc aacagcaaga agagccgaag cacgtgcaag aggcgtttct ggatccaagt 300
cgaagccaac cgg 313

<210> 31478
<211> 211
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-A10

<400> 31478

ttaaaaggac cgccatttga ccaccgcaca ccacccgaca tgcattcacac acccttccag 60
tgatcccatc ctcccgcaca accgataccc tcaacagcgt cccgttaaag agaaaatata 120
actattcccg atgcctccgc cggcgtctcc atacatacta aacacgcca ctgccaatac 180
ctcccatctc tggaaatcct aaccatattc c 211

<210> 31479
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-C6

<400> 31479

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gatatctagc gccggccggc ctgcacgcc gccgtgttgt gcgtacgtac gtacgtatac 120
atgtatgtat gtatatgcgc gcgtgtgatg cacgaataag cgtggctacg taatctatcg 180
tatgtatagc tgtgtgtatg catgtgcttg tgtatgatcg tggtagcagg accgaaaaaa 240
tgtatgcaac tctgatttac tt 262

<210> 31480
<211> 427
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-061-Q1-K1-C9

<400> 31480

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aatcaagaa gatggaggta tctcagcatt ccaagtactt ttgctgagttc tgtgggaagt 120

ttgctgtgaa gaggaagca gttggaattt gggggtgcaa ggactgtggg aaggtgaagg 180

ctgggtggtgc ttacaccatg aacactgcta gtgcggtcac cgtcaggagc acgatccgtc 240

gcctgagggg gcagactgaa gcatgatata gctctttata ttattggggg ttctgttagt 300

tgctcttgct aggcattgtg tgggggcctt atctagtggg aatgtggaat cactgtactg 360

gctgttttgc cgagacaatg ctctttatat ntgggttatg ctctaggatc tcaaagttgt 420

gtngttg 427

<210> 31481

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-D10

<400> 31481

accactcgt ccgcccactc gtccggctgt ttatccaatt gtttcttgca ctccctccaa 60

caagctaggg agggtttgtt cataccacgg cgagctcgtt tcattatcca tggatgatga 120

gaagcaccac caccaccacc tgatacacca caagaaggac gaggagcacg ccgcagccgc 180

aggatacaga tagtccgccg agtacacaga cgccacagtg actgaggcca gctccacagg 240

cgataacgat tactacgagt acaataagga agagaagcag cacaagcaca agc 293

<210> 31482

<211> 253

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-D12

<400> 31482

ccacgcgtcc gactggcct cggaagtta acccaagggt ttaaaacccc gccacgaacg 60

agaaagaagc agctgtttca aaccacgggg ggcccgaata accatcacg accatcaca 120

cgcaccaaca ccaccacctg aaacaccaca aaagagacca caagcacgcc gcacgcccga 180

gacaccataa gaccgcccag cacacacacg acacaatcac taaaccgagc cccacagacg 240
acaaccagta cga 253

<210> 31483
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-D3

<400> 31483

ccacgcgtcc gccacgcgt ccgaaaaatc atacaaaaat tttttataca aaacaaaact 60
aaaaaaaaaa cgaagattta aaaaaaaaaa caggaaaacc aaaaaaacca aaaaaaaaaa 120
aaaaaacggc caacctctct ataataccca agtttacata ccttgccatc cacttgcaat 180
agcttccaac accgccaccc aaactaaatt catggcccg ctttatccaa ctctattcct 240
gaaaaaaccc aaccattacc caacttatac caattgccca aacttccact ttaaca 296

<210> 31484
<211> 469
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-D4

<400> 31484

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gctcctttct tccccgcccg ttggcttttg cttggttgca tcgggccggt cgagccggag 120
aggaaaagct agctagcagc taccagctct cggccggcgg tggtagtctg cctgcagctg 180
gggttagctg caagggttgg gagctagcca tggggagggg tcgggtggag ctgaagcgga 240
tcgagaacaa gatcaaccgc caggtcacct tcgccaagcg ccgcaacggc ctgctcaaga 300
aggcgtacga gctctccgtg ctctgcgacg ccgaagtcgc gctcatcatc ttctccaacc 360
gcggcaagct ctacgagttc tgcagcggac agagcattac caaaacactt gagaggtatg 420
aaaaatacag ttatggagga ccagatactg ctgtacagaa catggagaa 469

<210> 31485
<211> 439
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-D7

<400> 31485

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cgccacacca caaccgctcg aagcgaagca agcaatggcc ggagtcggat cgaaggccct 120

cgccgttgcc gccgttctgg cgccgctctc cctctcggtg gccgccgagg cagaggcgcc 180

ggcgcccagc cccgtctccg ccgcccgtcg gccgctcgctg cccttcgccc cgcccctcgt 240

cgccctccgc gccgccttcc tcttcgcccg cgtccgccac tgagccgatg gggcctcgtg 300

cctgcaggct acctagcagt acttcgcccg ctgctgccgc cgccgectag atctatttat 360

tggagtgcta tccagtagta ctagtagtag tgagatttct tcggtgctgt cgtgtcgtcg 420

tcgcattttg gtcggatct 439

<210> 31486

<211> 138

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-D8

<400> 31486

actcgtccgc ccacgcgtcc tgtcaataaa aaaaattata taaaaaaaaa aaaaaaaaaa 60

aaataaaaag aaaatttaaa aaaaaaaaaa gaaacaaaaa aaaaaaaaaa aaaaaataaa 120

aaaaataaaa tataaaat 138

<210> 31487

<211> 282

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-E10

<400> 31487

accactcgt cctctcactc ttaccataaa tcaactcctt cttttgcgca tactatctaa 60

atactaagt agccttctaa taactcattc cctcctaaat tcacctcaaa atagcttcaa 120

cccacaccaa tcctatctcg taaacccaat aattacatgc atcatcgtcc catctccctc 180

aacctattat caaacatcaa atacccatta ctacgccatc ttcttccact agccattcca 240
 cctaattcttt atctccaaat accccatttt tccaaccaaa ac 282

<210> 31488
 <211> 269
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-E11

<400> 31488

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 cttctataat atgattccgg gctaagatta cctcaagata tcttgagccc acacaaattc 120
 tatcctgtta agccaatgat cagaaccata tgtctctcat cgcaactccac atattatcac 180
 accttaaata tgtattacca cacatctgct tcgatgagca ctgccacgta atctatatct 240
 tcaaaccgga catttttggc aagcacaac 269

<210> 31489
 <211> 185
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-E12

<400> 31489

caaacaaacc caacaaaaac agaccagcga aacaagtaaa ccaaaaacca acatcacaga 60
 ccctcctaac cataaaaaga caacacataa aaaatataac ccaatcacca cacatcttaa 120
 ctactagcc aatcaccgga aacttcagcc tcaaaaccca cattttaaca acaaaactaa 180
 taaaa 185

<210> 31490
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-E2

<400> 31490

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ccccggtgac tttttcatag atgcatcggg cccatccaac ctgataggaa aagctagcta 120
 gcatttacca tctctaggcc ggcggtgta gtctgctgc agctgatgtt agctacaaac 180
 attgggagct agccatgtgg agggatcccc tggagctaaa acagatcgag aacaagatca 240
 accgccagag caccttagtc aaacgcctca acggcctgct caagaatgct tacgaacact 300
 tcgagctctg caacacctaa gtctcactca acattctctt caaccgccga aagctctaca 360
 agttctgcat ccgacaaaac attaccaaaa cacttgatag gactaaaaaa acattatt 418

<210> 31491
 <211> 195
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-E3

<400> 31491
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 aaaaaaaaaa aaaaaaaaaa gaaggattaa aaaaaaaaaa aggccgaaaa aaaaaaaata 120
 aaaaaaaaaa ataaaaaaca aaaaaataaa aaaactaaaa tattattata aataaatata 180
 aaattaaaaa ataaa 195

<210> 31492
 <211> 167
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-E4

<400> 31492
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 agaaatttta taaaaaaaaa aaggcaatca aaaaaaaaaa aaaaaataaa aaaaaaaaaa 120
 aaaaaaaaaa taaaaaataa aatcctatta aaaaataatc aaaacaa 167

<210> 31493
 <211> 234
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-F10

<400> 31493

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cttatggggg tgtagtata ttggttgccg tgaatctata ataaaaacga ggtaaactag 120

gacaatgatg atgtggccgt gtgtatttaa tgtattctgt tcacaattaa aaaaaaaaaa 180

ataaaataaa aacaaataaa ataaaaaaaa acaaaaatac agtatagata aaaa 234

<210> 31494

<211> 294

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-F2

<400> 31494

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acacgtccgc caccttaaaa gacaccagcg gcgcccacaa caccggcac caacaacaag 120

agagcactgc acaaagcaac aacatcgcaa agcgacacat tcagcacccg ataagcacca 180

catgaccccc gacacaccca aaggcccggg ggacccgaag aaaaaagacc tacagacact 240

ttggggcaac cgccactgat agccctaggc gaacaaccgc gactactaca acaa 294

<210> 31495

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-C3

<400> 31495

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aaaagttccc gttggtttta taagaatggc agttcttaga tgtcgatttt gatgaaaatt 120

gatcattcaa cgtcactgta agagttgact gccatggttt gtgacaaggc tgccatgggt 180

tgctgcaccg tcagcctact atttggaggt tcatttgcca tcgcaacata tacagacgca 240

cgatcatttt tcttccattc tggagtaata gtccaagcct gaactgtgac attccgcat 300

gcttatacgt gaaattgtac c 321

<210> 31496

<211> 350
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-061-Q1-K1-F4

 <400> 31496

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 ggaggatttt aaaaaacaaa aagacgcccc aaaaaacaac caactatcaa acccaaaaac 120
 agaactccag atcaatcgcc ataacggcac ccacctactc accattccag acttattcac 180
 ttctgcctaa gccaaagcta ccatcgatat cgcttactca aacgacttca ctcaccactg 240
 cagcctaccg ccactaaatg ccgatgctta catagacaac tatcgtatat ctgagactca 300
 tccattgctt gctcaaacca ttttcgaatc atgaataaac atgattttta 350

<210> 31497
 <211> 369
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-061-Q1-K1-F6

 <400> 31497

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 acatccggca gacattttta aaaaggcggg gggcccaaca aaagatcccc aacaatcaat 120
 cccaagaacc atctccagat caatcacctc aataccaccc accttctcac catctccaaa 180
 cttcttcact tcttcccatg ccaatgcctt caacgacata tctcaatcta aacactttac 240
 tcaccatagc atcattttctc actctaattct tctattctta ctttaacaac aatcttacat 300
 ctaatactta tccttttctt tctcaattcc attaaattat cataaatcat caacaatata 360
 acacacatt 369

<210> 31498
 <211> 405
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-061-Q1-K1-A11

 <400> 31498

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 tgcctctcgt ttctctgttc aataatcaag atgagccgtg gtggtagtgc cgggtggtggt 120
 caaagttctc tgggttatct ctttgggaagc ggtgagcccc ccaaaccagc agtggcacca 180
 gctgcaagtg ctccacctgt tgagaaacca tctgctgcaa agactgatgc ggccaagcac 240
 gttgctgctg gggttaccag ccaaaccaat tactaccaca gggctgatgg tcagaacact 300
 ggcaacttcc ttacggaccg ttcttcaacc aaggtccacg ctgctcctgg cgggtggctct 360
 tccctgggct acctgttcgg tggcaactga tgcccgtgct ggtgc 405

<210> 31499
 <211> 314
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-A12

<400> 31499

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 tattgggggg tgtcttcatg aacaggcagc ggacatcctg atgcttgagc tcgctaggct 120
 caactgtggc caagggagag cgcttcacct catggagctc aatgacctgt cactaccatc 180
 aatggcgcta tacaacactg ctacacctgc tgacacacca taccctgcaa gagactgatg 240
 cactcaagca ccttgctgtt ctgcatacca gccaaaccaa tcacgtccac aatgctgatg 300
 gtcagaacac tggc 314

<210> 31500
 <211> 135
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-A2

<400> 31500

aaaaaaaaa aaaaaacgag aaaatttttc aaaaaaaaaa gggcgccaaa aaaacacttc 60
 accacatcat caccatcca caactacatc agcttacaca ctatagtacc acatattttt 120
 acataaaaact cactt 135

<210> 31501

<211> 384
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-061-Q1-K1-A3

 <400> 31501

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 ccggctttgc gtcctctctg gtcgtgcgct tcgcccgtct ccacagttgg tgcagaaaca 120
 gtgcaacagt gtttacgggg tgaactgctg gagttggcgt tagatagtcg atggtctact 180
 gccgccgtgc tctctcacta ccagtgtccc accaccgcc a tgcattgttt gcggcaattg 240
 ccggctacta tactcctccg tctccaatca tcaggcacca gcttgcgacg caacttggat 300
 tctctcctct tctctactct cgttgcaaca aggagtcga gtgaatgaga cggatggccc 360
 caactgtgcc tgtagctgat gcat 384

<210> 31502
 <211> 256
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-061-Q1-K1-A4

 <400> 31502

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 cgtggacaga caccagagcg gggctttaaa aaaagatggc gggccaacaa aacagctaca 120
 ccatcacacc ctgcctctcc tactcccaca gcacggggaa cggcccctcc gcgtcctgct 180
 tcagcaacat caggaacctc aagagcgcca acagcaccac cgccaacaag cagcccgaca 240
 gcaactgcct caagaa 256

<210> 31503
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-061-Q1-K1-A6

 <400> 31503

 tgtcgatcca attgtcactt gctctcccat caacaagcta attaaggccg gtccatgcgg 60

gttctagctc gtttcattat ccatggctga ggagaagcac caccaccacc acctgttcca 120
ccacaagaag gacgaggagc aggccgcggc cggcgggtac ggcgagtcg ccgagtacac 180
ggaggccacg gtgacggagg tcgtgtccac gggcgagaac gagtacgacg agtacaagaa 240
ggaggagaag cagcacaagc acaagcagca cctcggcgag gccggcgcca tcgccgccgg 300
cgccttcgca ctctacgaga agcacgaggc gaagaatgac cgggagcacg cgcaccgtca 360
caagatcgag gaagatgtcc cggctgccgc tgccgtcggc tccggcggct tcgcctttca 420
cgagcaccac gagaaga 437

<210> 31504
<211> 426
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-061-Q1-K1-A7

<400> 31504
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ttcaaaaat ttttaagtcg ttctgcgtc cttctattac gagcaacgtt ttatattctg 180
tgcttgcata atgaatcgaa gaaatcctga caccaatcga actgaagatc ctgaaacgca 240
cgtaataacc gttgacgtcc gcttcacca gctcgatttt cagtcttgta atactaatcg 300
ctccatgagt ctgaagtgtg caaaaattta ggtcgcagct acacaaattt acatgctggt 360
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attata 426

<210> 31505
<211> 348
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-061-Q1-K1-A8

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 nntccagccc tcnnngtcgg cttttctnnn tcgcacctn cgtcactncg tgcgggtcan 180
 gnnacactca ccaggggttc atttaaattg gnnacagagac cgggggtgttc taaccccnnc 240
 tcttnntgga aggggtatgn naagcatggg tgaaggggca gagaacgnnn gagtcattct 300
 tcnnaccaag ccnnncttcc ttggggatgt cttgcaagcc caaatctt 348

<210> 31506
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-A9

<400> 31506

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 atgatgtgaa gatcaaacac aaagcatggg aagagcaaga ggagccaggg aaagcccaag 180
 acaaagcata gaaaatccaa gttaattgcaa gcgggattca agaaatttcc aaggaaatat 240
 taggcaagac agataaattg ttggaagcac tggagccaaa ccttgacaaa gaagagaaga 300
 ttcaagaaaa ggaagagcaa cacctcgaag aagtggataa tgttcaagag aatgaaggca 360
 aagtccaatg cccggcagag aaaatccaag ttaattgcaag tgggattcaa g 411

<210> 31507
 <211> 249
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-B10

<400> 31507

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 caataagtaa aacaacgtca caaggagtgg taattcacia gcgcccacag gctcccacat 180
 atcctacacc tatcaagtca tttcaciaag actgactaga gtcaaactca acaggtacta 240
 ctttaaacy 249

<210> 31508
 <211> 123
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-061-Q1-K1-B11

 <400> 31508

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 gtttttcaaa caggctgagg caatggcacg ggccttcgt ggcggaacg ccctaactg 120
 tct 123

<210> 31509
 <211> 185
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-061-Q1-K1-B12

 <400> 31509

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 agagtaaggt gtatgagtat atctaaaaaa cccctgcttg caaccagaca aggcaatcca 120
 tctatgaatt tgtgaagaga agtgagggtt aaaggcttgc agaggctgat aagtcaaag 180
 tcatc 185

<210> 31510
 <211> 176
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-061-Q1-K1-B3

 <400> 31510

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 aaaaaaaaaa aaggagggat tccaaaacaa acagacgcac acatacaaca aaaataacat 120
 caaacatatt acaaccataa atacaattca atttccatca atctacaacc taatac 176

<210> 31511
 <211> 447
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-B6

<400> 31511

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ggtgatggcc gcggacacgg agcctctcga gatcctgctc cacctcccct tgtagccga 120

ggataagaac gtcccatatg tatttggtcc atcgaaacaa gctcttggcc gtgcttgtgg 180

tgtgacaaga cccgtcattg cttgctcagt gaccagcaat gagggtagcc agctgaaaca 240

acagatacag ggtctcaagg actcgattga gaagcttctc atctgattta cctaagatct 300

ttcagtgtga tgggccttgg cgacacattt ttcagaggct tggactggtg atgggtgtctt 360

gtttacatta cgctttccaa actatatctg aacactgcta agtcaatcat atttgaattg 420

tgcttcactt tatactctgtg attgtca 447

<210> 31512

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-B8

<400> 31512

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gagaccatac ccaaacatcg cgattataat gcatttaagg ctagagaaaa ggaattcctg 120

aagaaaggcc cacacaactc tgagaaaatt cttggtattg tcaatgagct agagtccttt 180

aagccagttg tgcagcaaca aattgccacc ggtaatagca ggggtgcaga tgaacctaat 240

ggtgtatatg gaacctatgc tgcaagtagt gagttggagc accatacccc aagcccatat 300

gtgtcgaagt ccttgtctgg aagccctact agactactgc agaaaccatt acctggttca 360

aagcatcaag cagctatgtc gcacaatggt caaccttata gacatgctat tgaacctatct 420

accaacatgc t 431

<210> 31513

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-060-Q1-K1-H8

<400> 31513

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gatagggggg gaatcctcaa gtgctcggtta cataaacctt aacctcggtg gattcgcagc 120
aaaagcccac caattggaag ccctccgatg ttccagctgc atgctggagc tgagccgtgc 180
tcggtttgac gaaattttgc atcccttctg tgcttgacc acccgattga ggctgtttct 240
ccgagggggc gtgccagcgg ttctcgggcc caggctctca cctgtgctat ccggcgccgg 300
atccgggttt gttccggtga gaggtcgggc ttttggtggg gtctgtacag cttggagctc 360
aatttgccgg cctgagttgg agtcgcgact gcngtgccgg tgattgaggt agtcgcgtcg 420
aattggcacg cg 432

<210> 31514
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-B9

<400> 31514

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cattgtcaaa gccttcgcac acataaaatg cactgtgctg gcccttgcca agatcattgc 120
caccaaaccg gacgatggag cgaagattaa ctatgtcgaa ggtcacatgt tcagtttcat 180
tccacctgct caaactgtcg tgctaaagct tgtgctgcaa cacctgaccg atgaggactg 240
cgtaagctc ctgggtcaat gcctgaaggc gattccttca cggaaggacg gctggtaaag 300
tataatcggg gatattatga ttgaccactc tgggcttatg ctggatacct aacctctgat 360
ggaca 365

<210> 31515
<211> 218
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-C2

<400> 31515

ccacgcgtcc gaccaggcgc acacaacttc ccccgagcca tcgttatcca ctcccccatg 60
atcccatcac cgaagtttat aaacaaccgg ggccaccaca aacaaactga actggacacc 120
aacatcctat cggttaaccc caactgcact ctcaacaccc gcaattacac tgaagtcaac 180
ccctacctga ccaacataat ctacgccagt taacctca 218

<210> 31516
<211> 249
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-F6

<400> 31516

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ccgaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaacaaa aaaaaaaaaa aaaaaaaaaa agaaagaaaa aaggggtgct tcattaagaa 240
tgacaaatt 249

<210> 31517
<211> 263
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-F8

<400> 31517

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acagtgcgc aacgacgaga ttggtggtga cctggatgag cacgttatag agcccacat 120
tgccgatcag taccattact agaagacaat gtgccagcta aacacgtctg ggcgcttcac 180
cattggttga cctgacaggc acgcccgcgt cactggacgg cagatcattc gagacaccta 240
cgggtggctgc tgagcccact gac 263

<210> 31518
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-F9

<400> 31518

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cccacgcgtc cgaaaaaaaa aaataaataa aaaaaaaaaa aaaaaaaaaa aaaaagaaga 60
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaataaaaaa taaaaaaaaa aaacaaaaaa aaaattaaat aaaaaaaaaa 180
ataaaaaaaaa aaaaaaaagt aaaaacaaat aacataacaa aacttaaaca aaaataaaac 240
aaaatccctt tataaacaaa taacaaatta tctaataggc cttaacatat aacgcttccc 300
aacatttgcc aatcctaaat gccca 325
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<210> 31519

<211> 406

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-060-Q1-K1-G2

<400> 31519

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gggtggcgcc atggttccca tccgtgtgca cacagtcctc atctctaccc agcacgacga 120
gacagtcacc aacgacgaga ttgctgctga cctgaaggag cacgtcatca agccagtcac 180
ccccgagcag tacctcgacg agaagacaat cttccacctc aaccgctctg gccgcttcgt 240
catcggcgga cctcacggcg acgccggcct cactggccgg aagatcatca tcgacaccta 300
cgggtggctgg ggagcccacg gcggggggcg cttcttcggc aaggaccga ccaaggtgga 360
ccgcagcggg gcctacgtcg cgaggcangc tgccaagagc atcgtc 406
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<210> 31520

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-G3

<400> 31520

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gaggggtgcgc ccactccctg aggaggtctt cgggcgagac gtaacttcgt tcgggactac 120
 agttcccgcc cgaggttggg ctcggtgag gcgagatcgc gccccttggg tagacgaagc 180
 cttgacctga atcgcgccca tcagtctctg cagcttgcgc tgatggtggt taccagccgt 240
 gtttaggagt gttgggggta cccctaatta tggtagccga caaaaagata ctagtatctc 300
 cactatttgg gtctattcgg tggaccgaat agaccgaacc aaaattgtga gtctattcgg 360
 gttcggttcc taaaatta 378

<210> 31521
 <211> 374
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-G4

<400> 31521
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 ggttaactca tctagagttc aggatgaagt catagctccc aacaagatct ggattgttca 120
 ttgatgcttg gattgcctga tcacgataag aatgtgttga aatcagcagc tatgttttct 180
 cggggagatt cagctggcat tttccatgaa gttttgcacg aagtgtatct tgtaccatat 240
 tgagttcagt tgtaggataa agttttgttg gtaggtcaga aaggctgctg caagtcacg 300
 gtgtaaattt tcttttatta gtttcattaa tgtcctcaat agtcggtgtt tccaagttgg 360
 agaaaggaaa gaac 374

<210> 31522
 <211> 328
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-G5

<400> 31522
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 gaaaaagtac ccacataacg tggtagcat atctagcaaa aagatgaaac taaaatggaa 120
 ctaccgttcc cgcccgatgc aaagctaagg tgcggggaga tcgggccctt gggtagcacc 180
 aagccttgac ctgcacgcgc cccatcaatc tctgcagctt gcgctgatgg tgggtaccag 240

acgcgttttag gaatgttggg ggtaccccta attatggcac ccggcacaca gatactagtg 300
tctacactat ttgggtctat tcggttga 328

<210> 31523
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-G6

<400> 31523

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tcatgcctct gtacgacgcc ctccggaggga ccatcagctc cagatcgtgg gggctgcaga 120
gagaggtcga ccaaggcatg aacgaccggg tgccggactt cgtgttcttg gcgcacgtgg 180
tggacgtggt gtcgtcgatg cacgtgcctt tcgccttccg ctcttcgagc tcgctgccgt 240
gggccatgcy ctccgtgctg ctcccgctct ggcccgtcgc ctccgccttc atgc 294

<210> 31524
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-G7

<400> 31524

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gcagcagcgc agccggagga gggagagcga agatgcgccg cgtcgcgctg ttgctcgtcg 120
ccgccgtgtg cgcgctggcg ggcgccggtg ccgcggtcgt cactgacggt cttctcccca 180
acggcaactt cgaggatggc ccgcccaagt cggcgctggt gaacggcacg gtggtgtcgg 240
gcgcccacgc catcccgcgg tgggagacgt ccggcttcgt ggagtacatc gagtccggggc 300
acaagcaggg ggacatgctg ctggtggtgc ccgcaggcgc gcacgcggtg cggctgggca 360
acgaggcgt 369

<210> 31525
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-G8

<400> 31525

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cggcctccgc ctccggtgc gcggtgcacgc gcgccggccc gccgcagccc cgccaccgcg 120
cgcgtagtgc cgccgcgacc gggcgggcgt tcttgctcgg ccgccaccag cgaccgccac 180
ggcagataat aaacatcgtc gacgaccgcc gtgccagctc cgatctccgc tgccggcgac 240
ggctcctcac ggcgcgagggc gagcgcccgt cccacgacga cgacgaggac gaggagcaga 300
cgtcgtctgc tgggtggtgt tacggctcgt tcggcgcggc ggtggcgctg ttcaaccgcg 360
gcgagtacca cgcgtgccac gacgtggt 388

<210> 31526

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-060-Q1-K1-G9

<400> 31526

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acaccttcgc cggcgagagc atggcgatgg cgtaccgtgt cctggaggtc accctggtgt 120
cggcaaatga cctcaagaaa gtgtcgctct tctcccgac tcgcatctac gccgtggctt 180
ccatctccgg attcgacctc cgcattccctt cccacagcac ccaagcagac cacagcaacg 240
gctgcaaccc ctgctggaac gccgtggtac acttccccat cccggctgcc gctgacaccc 300
gcggcctcgc actccacgtg aggtccgnc ggccccccc cagcgtctat acctgggcga 360
tcgcgacatc ggcgaggtgt ttgtgcccat cgacgacctc ctggccggcg ccgacaaggg 420
tggcgatcc 429

<210> 31527

<211> 408

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-060-Q1-K1-H1

<400> 31527

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aaaccagcca attgtcaatg ctgtcattga tggatgatgac atcatataca gagactacgt 180
agacatcagt gttgctgttg gcacttccaa gggccttggtg gttcctgtta tccgagatgc 240
tgataccatg aactttgctg acattgagaa agggataaac aaccttgcaa agaaagcaac 300
tganggggcg ctctcaattg atgacatggc aggaggaaca ttcaccatct tcaacggtgg 360
tgtctatgga agcctnctca gcacacctat catcaaccct tcacagtc 408

<210> 31528

<211> 294

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-H10

<400> 31528

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gttaagcgca aggccggtcc cgccgagtc cccgccgccg tggaggcagc caccaccaac 120
caccgccacg agccggcgct ctcggagccc aagccacgcg gctccatcta cttccccatc 180
actgacgacc ctgccgaacc caacgccgcc gaagaggacg aggacgaggg cgccggcgac 240
gactaggacg acgcggagga cattgtcaag ctacttgagc cgctgtcgcg ggag 294

<210> 31529

<211> 369

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-060-Q1-K1-H11

<400> 31529

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ccggcggtcg tgtccaggtg ggcgcggcag caccagcagc atcagctcgc ggacgagccg 180
cgcgctcccc ggccgcaggc ggtggtgctg tacacgacgt cgctgcgcgg ggtgcggcgc 240

acgttcgcgg actgcgccgc ggtgcgcgcc atcctgcgcg gcttcgcgct ggccgttgac 300
gagcgggacg tgtccatgga cgcggcgctc nccccggggg gcgggaggtc caggcgctgc 360
tggccgcgc 369

<210> 31530
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-H3

<400> 31530

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cctaagatgt ccaacgctga cctgggcagg atcatcaact ctgacgaggt gcagtctgtg 180
gtgaagccac tcaacaagga ggtgaagcgc acggagaaga ggaagaacct actcaagaac 240
atggctgctg tgctcaaact caaccctac ctcggcactg cccggaagat ggacaccctt 300
gctgaggctg ctgctgtga 319

<210> 31531
<211> 411
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-060-Q1-K1-H4

<400> 31531

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ggaaatcctc aagtgtcgt tacataaacc ctacctcgt tggattcgca gcaaaagccc 120
accaattgga agccctccga tgttcagct gcatgctgga gctgagccgt gctcggtttg 180
acgaaatttt gcatcccttc tgtgcttgga ccaccgatt gaggtgttt ctccgagggg 240
gcgtgccagc ggtttcgcgg ccaggtcct cacctgtgct atccggcgcc ggatccgggt 300
ttgttccggt gagaggtcgg gcttttggtg gggctgtac agcttgagc tcaatttgcc 360
ggcctgagtt ggagtcgcga ctgcngtggc ggtgattgag gtagtcgcgt c 411

<210> 31532
 <211> 267
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-060-Q1-K1-F5

 <400> 31532

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 aagcgaacaa tctaatatgt gagcggagat ccctgaattg catggatcga gtgaactagt 180
 ctctgagaaa ctatgggggag tgaacttgat ggctctgtga aactgtgcta tgcgaactag 240
 atggctatat gaaacgacca tgtgaag 267

<210> 31533
 <211> 61
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-060-Q1-K1-H6

 <400> 31533

 cccacgcgtc cgataaaaaa taaaaataaa aaaaaaaaaa aaaaaaaaaa aaggaggaggaa 60
 t 61

<210> 31534
 <211> 369
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-060-Q1-K1-H7

 <400> 31534

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 aggctaaga tgtccaacgc tgacctgggc aggatcatca actctgacga ggtgcagtct 180
 gtggtgaagc cactcaacaa ggaggtgaag cgcagggaga agaggaagaa cccactcaag 240
 aacatggctg ctgtgctcaa actcaacccc tacctcggca ctgcccggaa gatggccacc 300

cttgcctgagg ctgctcgtgt gaaggccagg aaggcgaagc tgcactccaa gaggaccaag 360
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<210> 31535
 <211> 418
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-060-Q1-K1-D3

<400> 31535

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 tcagccgctg agctggtcac ggcgctgtct ctcccccca ctaagctgcc gttcctccgc 180
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 gaggagcggg accgcatcag ccccggtgtcc tacctcctgg tggacggcat ccctcacgag 300
 gaccacatga accacaccgc tctggtgctc acctgcacct cgacgcgcta catcgaggcg 360
 gngatagggc tggcggagtg gttcaagagg gacgtggtca cgttaccgtt cgaggagc 418

<210> 31536
 <211> 208
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-D5

<400> 31536

cccacgcgtc cgaacaaaaa attagatata ataactaata acaactaaaa aaaagcagga 60
 aaaatctcca aaaaaactag gcttcacac tatcaacaac ccccatctct acatctgcct 120
 aaatccatca tcttatcact tctctaactc tccctaccac taatctaccg ctctccttc 180
 tacaacttcg cgattctaaa aaccctgg 208

<210> 31537
 <211> 220
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-D6

<400> 31537

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gggcatgagg gacgcagtga tgtacataaa gacgggagcc aacctctgcc cagccgatcc 120

gatgattcaa gaaaactcga ccgatcgac gggaccgagc acccaaaggc agcaccaaaa 180

agaatgcccg agaaccaaca ggggaaaggc cgcataacgc 220

<210> 31538

<211> 126

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-D7

<400> 31538

cggacgcattg ggctgacgcg tgtgagtaca gacctaacct gatcaacaaa ttgggggggg 60

cgttcgatgc tcatctagga gacctcacgc agaggcaact actagctgcc ggtgccacaa 120

tcaatg 126

<210> 31539

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-D8

<400> 31539

cttcattcaa ctggaaccac aatccttttt atttgaagca gagactatgg tggaaggtac 60

ccttgatgga ttcacatttg attcagatga ggagggtgac aaactctatg aaccacaggc 120

taatcaaaac gatctgaata ataacgaaga tgaaggtcaa cctaaggcaa agacaaaaag 180

gaaagcagag aaaacaacgg ggaatgcacc gaagaaggcg aatgttgcag gaaagggccc 240

taaaatgggc acgaggaaaa cccaacctgc gaagagaggt aggaaggcta agaaatgatg 300

acatgttgat ttcctcggat aagaagaaaa agtctattga gaacctggat agctggcaac 360

aaagatgtga atttttcaac gcatagtcac g 391

<210> 31540

<211> 233

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-060-Q1-K1-D9

 <400> 31540

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 aaattacaac gtataaccgc aactttaaac tcaaactaat actacaatct atttacacaa 120
 acaacatcat ccacatttac cgaaaatcct taattccctc aaccaaaca accagatcca 180
 taaccaatac ttcaacacat aactttcaat aaaaataatt cccaacaca cat 233

<210> 31541
 <211> 238
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-060-Q1-K1-E10

 <400> 31541

 accactcatc caccactcc tctacctaca catacacaag cacccaaata acgagaggat 60
 tatttaacaa ccttggtggc ataccacaca ccataccaca tcaaacctca cgtaacacca 120
 atagcaacaa tcacatccac tacgccatca tccaactata caccataccc atcaaatacc 180
 cccctcctt cccacacgac cacccttacc cccaactctt cctcttaaaa caccat 238

<210> 31542
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-060-Q1-K1-E11

 <400> 31542

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 ggcaagatcc gaggttgaga tgaagaaaga gaaattgcg cagttgttga gttcaaccag 120
 tagatatgct gataacttat ggtacataga accgaacacc taccgaagaa gggaccgggt 180
 tagaatggac tatcacagaa gcttaaggac acttattcat tgacacttgg aattgggatg 240
 cttggaggta acaccaactg gaatgatgga ctctcaatag ctgaaagact tgtcaaatct 300

catgaaaggg aaagtgattg gtggtatgca anaaaaaaaaa ggtttacatt acctgaaagg 360
gcattngctg ttgattgggt ttttctgat gggccacctg ggaatgcaag gaattatgat 420
aacaatg 427

<210> 31543
<211> 425
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-060-Q1-K1-E12

<400> 31543

agaagtcaaa cctgggttca cttggttccc atcccccaa gtttcgacct cagtgggtga 60
gccatacaac agtgtcctgt ccacccactc cctcctcgag cacactgatg tggctatcct 120
gctggacaac gaggccatct atgacatctg ccgccgttcc cttgacattg agcgcccaac 180
ctacaccaac ctcaacaggc ttgtgtccca ggtcatctca tccctgactg cctccctgag 240
gttcgatggg gctcttaacg tggatgtgaa tgagttccag accaacttgg tgcctaccc 300
gaggatccac ttcattgcttt cctcctatctt gggggcctcc agtcattctt gctgagaagg 360
cctaccacga gcagctgtct gtggccgaga tcaccaacag cgccttcgag ccattcctnca 420
tgatg 425

<210> 31544
<211> 278
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-E2

<400> 31544

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cttttgacgc gtgtaagcac aaacgttttag acagaccgag agcagcagcc agtgaacctg 120
ttatggtttt gcagttgttc agtacggcag aatgttggtta aaccgtagct cagagatgta 180
ttaccagtgg cgctaagctg tactgttacg gtgtataatg cggatacaaa taaacaatct 240
agcgggtcat taaagcctga actcagataa catgttct 278

<210> 31545
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-060-Q1-K1-E3

 <400> 31545

 aaaggaagtt aattctgtaa accagattct tatatattgc tatcgaaaag gttaaagagc 60
 ctgatagaca acctaataatt cttgcggaat atatagcttt ccaattaaaa aatagagttt 120
 cattccgaaa agcaatgaaa aaagctattg aattaactaa aaaagcggat ataaagggaa 180
 taaaaatcca aattgcgggt cgtctagcag gaaaagaaat tgcacgtgcc gaatgcatca 240
 aaaagggtag actacccttc caaacaattc gcgctaaaat tgattattgc tgctatccaa 300
 ttcgaactat ctatggagta ttaggtgtca aaatttggat attcgtagaa gaagaataac 360
 taaccatgtc ttcccattcc gcccagtgat agaataaaaa agacaagaac cttgtttttt 420
 c 421

<210> 31546
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-060-Q1-K1-E4

 <400> 31546

 cgcacgcgtc cgtatttatg taaaaactgc ctgtcaaaat gattaattgg aattccagtt 60
 agtcattgaa gaaatgaaaa agggattaaa gaaaataaaa aatccaagtc ttaaatgaaa 120
 gggctctggtt ggaaatcataa agtgtggtag aaagaactac atatagtttt ttctaccaca 180
 ctttagattc tttctattat attatcttga atctacatag aatcgattag tagattgaaa 240
 tagtagtcta attcaacttc ttttttcact gcatccactt aatttcaatc aagtcaaaat 300
 caaaaaaatc gaagataatt cttcattgaa agaatccaaa gagggggaga aaaataatac 360
 gagaatagac tagaatagat tatagtaaaa gaaaaaaagt aaaaagaaaa aacctacgaa 420
 tctttcat 428

<210> 31547
 <211> 427

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-060-Q1-K1-E8

 <400> 31547

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 cgcgcgcaag gcagcaaacg cgccgcgcac cggaaggccc cggggagctg cagcaggtgg 120
 cccattgcg gcatggctgc tacggccgac gccgctggcg tcgagttccc gctcattggc 180
 gttgccgtgg ccacgctcat cgtgacggtc cttgtcgcg ccgtgatgcg ccggcgacga 240
 cgtccctggc accaggcgcc tctggtggag gggaaacccg caccagaggc aggctgcgcg 300
 gtcagcgatg gcgggacgga cgcatcatc gtcggcgccg gggtagctgg atctgcgctg 360
 gcatacacgc tncgaaagga tggccgtcng gtgcatgtca tcgaaaggga tctgacagaa 420
 cctgaca 427

<210> 31548
 <211> 315
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-060-Q1-K1-E9

 <400> 31548

 aaaggtctga aaccccgctc tctacttttg gatatatgag tacttggata actggatggt 60
 tatgggacat cctttgtaga ggtccactaa gcacccata ttacacctca tgtatcagga 120
 atagctaatt gcacatagtc aatggaagga tcatatgttc cctctttccc atgatatatg 180
 ccctctttta tccgtaagtc taccttggcc ttctactctg ccgctaaaag ctctgcattc 240
 tgcatgtcg acaggagagt gcttgctata tgactgcaac ctatactggt ggcggatcac 300
 cattctgaat agggc 315

<210> 31549
 <211> 268
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-060-Q1-K1-F1

<400> 31549

cccacgcgtc cgcacagaac ttgagcttta ttacatcctc acctctaata cgcgcaagtt 60

tgagtcgatg atggcactcc caatggaaag gaggaagagg tggcttatga tgcagctaag 120

gaagtgaaac aacttatatg tgaacttaga tctctgtatt gaactgattg tgtgaacttg 180

tctttgtgaa acttttgtgt gtgaacttga tggctatgtg aaactgttgt gtgcgaactt 240

gatggcttta tgaaactact atgtgaag 268

<210> 31550

<211> 268

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-F11

<400> 31550

cccacgcgtc cgcacagaac ttgtagctta tgacatcctc acctctaata cgcgcaagtt 60

tgagtcgatg atggcactcc caatggaaag gaggaagagg tggcttatga tgcagctaag 120

gaagtgaaac aacttatatg tgaacttaga tctctgtatt gaactgattg tgtgaacttg 180

tctttgtgaa acttttgtgt gtgaacttga tggctatgtg aaactgttgt gtgcgaactt 240

gatggcttta tgaaactact atgtgaag 268

<210> 31551

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-F12

<400> 31551

ggggacacga tcgccatggc cttcacatcg accgccgccg acgtgctgtg ccggccggcc 60

gtggccgaac tccgcctggc gccgtctacc ggccgggcgc gcgtgtcggt ccgcgcggcg 120

ccggcgccgg cgcggaggtc cgaggcggca cgcgcggagc tgagctcggc gctggtgatc 180

agcctgagca cgggcgtgtc gctattgatg ggcacgatac gtcttcttca acttccagcg 240

ggagaacgtg gcgaagcagg tgcccagca gaacggcaag acgcacttcg acgccggcga 300

cgagcgcgcc aaggagttcg cggcccttgg attttttcca agtctaacga cccagtgggc 360

ttgaacctcg tcgacgtcct cgcttgagc tcgatcgcc acata

405

<210> 31552
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-D12

<400> 31552

cccacgcgtc cgctctcgcg gacatactgg acagctcacc cgattccggc acggaagaga 60
ttgtgcaggc gatggtaaat gcatcagcct cagttggctc accatcagag gagaagggttc 120
aggccaggat gcagatgatc acccgggtgt tctcaagag cctccagccc ggtgacgtgg 180
tcttcaagaa ggtatcccg ggggtctact ggccttccg tggcatcatc ttaggtggca 240
gtggctcctaa gggccagaag ctggcggacg cggcattgcg ccgtatcgcc gccaccaagg 300
ttgtccacag ggtgttaaag gc 322

<210> 31553
<211> 448
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-060-Q1-K1-F2

<400> 31553

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gagatcaagg tcgtcacggg cagcgacagc agcaccgccg tcaccttcgg ctgcaactcc 120
tgggtgcact ccaagttcga caaccggaa agcgcattct cttaccctc aagtcctacc 180
tgccgtccga cagccccaag ggcctggagg acctgaagaa gaaggacctg caggcgcttc 240
ggggcgacgg ccacggcgag cgcaaggcgt ccgagcgct ctacgactac gacgtgtaca 300
acgacctgtg cgaccggac aagaaccccg nccaccagcg gcccggtgtg ggcggcagca 360
agcggtaacc gtaccgcgc cgctgccga ccggtcgccc ccagaccagg aaggaccccc 420
gaggcgatgt gcgccatggg cacaacta 448

<210> 31554
<211> 408

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-060-Q1-K1-F3

 <400> 31554

 gtttcacaat ttaatgaatc ctccacttat ttgatgggat ggttaagaga ttacctagtg 60
 ggtaaactct tcacaactta ttaatggata taatcctttt gggatgaata gtttatcagt 120
 atgggcttgg atgttcttat ttggacatct tgtttgggct acaggattta tgttcttaat 180
 ttcttggcgt ggatattggc aggaattaat tgagacttta gcatgggctc atgaacggac 240
 acctttggct aatttaattc gctggagaga taagcccgtg gctctttcca ttgtgcaagc 300
 aagattggtc ggattagccc acttttccgt gggttatata ttcacttatg cagctttctt 360
 gattgcctca acatcaggca agtttgggta atttagttat tttttttt 408

<210> 31555
 <211> 450
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-060-Q1-K1-A9

 <400> 31555

tctccgaccc gaccgctacc cgttggcgga cgcgtgggcg gacgcgtgtg ctgtacgcgt 60
 gggcggaacg gtgggtggaa gcccgaaacgt gaactacacc gactggctga agcagcacag 120
 ccccttctac aaggacgact ggctggtggt ctactacacg gcggggcagg cggacgtggt 180
 gcaggtggac gaggtgggct acaacaagtg cgactccacc aacgccatct acaactacag 240
 caaggggagc agcttcgcct tccagctcaa cgagaccaag acctactact tcatctgcag 300
 ctacggctac tgcttcggcg ggatgcgcct cgccatcaag gccgagaagc tgccgcnnnc 360
 cccggggcgt cgccgcccgc gtcgcgcagc gaccgctccg ccgncgccat cgccgncttc 420
 gccaggtccc acgcgcccgt catctacgcc 450

<210> 31556
 <211> 353
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-B10

<400> 31556

cccacgcgtc cgccacgcg tttccctct cgtccgcgga cgcgtgggcg aacgcgtggt 60
cggacgcgtc gtcggacgcg tgggaagaac tgggtaatca tgaccgagtc cctgagacgt 120
actagatgat aaatgtacta cgtcgtatca tggccgtgga aggggcccgtg gggatcgtgg 180
tagttataga ggctgatact gagggggata cagtcgtggt ctaactgctg ctgctacatt 240
cattgaagat caagctcagt taccaagcct cagtgggaag tgaaaggctc acaaatgatg 300
atgtcaccta tcgttggtgt gtctgctagt tgggtatttat ttatatttaa att 353

<210> 31557

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-060-Q1-K1-B12

<400> 31557

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ggcaaactcag gctgtggagc gggcagctgg tactgatggc caaaagataa catacggtgt 120
cataaaacac cgtttgggcg atctatttta tcgcctagta tctcaaaagt tcgaggatcc 180
tgccgaaggt gaagaagctt tggtcggcaa atttaagaaa ctgtatgatg acctcaccac 240
tggtttccgc aatctcgaag acgaggcacg gtgaactagt gtagattctg tgtaaacaag 300
gactgcaaaa tgttttataa gatacataan aaatTTTTTT tgtagattga gatcatctgt 360
aagaattatt cccaccgttg caccatctct tcgccaccac tgtttttagtc atcggtgcct 420
gatgggca 428

<210> 31558

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-B3

<400> 31558

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agtgaccatc aaaggagttt ctcaaatcag gctggtgttt ctacagtaga tggactagaa 120
 gattttccca tgggtaagtc tcagaatgtg catacgttta atgaggaaga atttgagaga 180
 agtacggcag cagcggctat gaaagaggct atggataaag ctgaggcaaa gttcaaacad 240
 gccaaaggaag tacgagagag agagcgtgat gcaaagctta gaaatagaga acaacaggaa 300
 cgagataatg taataaggct gtatgcccgag gatcgtgagg acaaagagag aaaggaaaga 360
 ctagaacaag aaagagagat gaggca 386

<210> 31559
 <211> 244
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-B4

<400> 31559
 gaaaaaaaaa gtgcagaatg tcctaaaaaa ataaaaaaa aaaaaaaaaa aaaaaaagga 60
 aaaataaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaacaaaaa aaaaaaacia taaaaaaaaa acaaaaaaaaaa 180
 agaaaaatga acaaccacta caaaactaat gaagtcacct acaaaaatga tcaaaaagacc 240
 aata 244

<210> 31560
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-B5

<400> 31560
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 gttgttgggt ccgcggtagg ctggcgaggc ggtgcttggt acgctcgaag gggcttgaga 120
 agagagcaac aaaagctggt ggggatgggt cacatgaagt cgcacgacag atggcactgg 180
 cgcccttca acaggctcag gaacagcagg ttagcctcca agaacaagcg cgccgacgcc 240
 catccaagca ccgaggcccc ctgcacgtca agcaacacgg cctctgcgga cgtttagcagt 300
 gcttctcagc cggcagcggg cagtgcata gcttatatat caacaacaat ggactaggat 360

gtgaagctgg ggccgcgtag tagtccataa gacttggtag aacagaccat gtgagt 416

<210> 31561
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-B7

<400> 31561

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accgcaacga ggggtggcgcc atggttccca tccgtgtgca cacagtcctc atctctaccc 120
agcacgacga gacagtcacc aacgacgaga ttgctgctga cctgaaggag cacgtcatca 180
agccagtcac ccccgagcag tacctcgacg agaagacaat cttccacctc aaccgcgtctg 240
gccgcttcgt catcggcgga cctcacggcg acgccggcct cactggcccg aagatcatca 300
tcgacaccta cggtggctgg ggagcccacg gcg 333

<210> 31562
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-B8

<400> 31562

cccacgcgtc cgggggttggc ttttccttcc cctccggttc ggggttcgggt tcgtgaggtt 60
ctccgggggtt cggtttcgtg ggtgagcgga tcgagatggc ggcgtcggat gttgagtacc 120
gctgcttcgt cggcggcctc gcctgggcca cggacgacca ctccctccac aacgccttca 180
gcacctacgg cgaggtcctc gagtccaaga tcctcctcga tcgggagacg cagaggtccc 240
gcggcttcgg ctctcgtcacc ttctccacgg aggaggcgat gcggaacgcc atcgagggca 300
tgaacggcaa ggagctggac ggccgcaaca tcaccgtcaa cgaggcccag tcccg 355

<210> 31563
<211> 224
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-C1

<400> 31563

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actaactcgc tccaccgaat gagttccaat aaagccatgg agctagctaa cccttgctga 120

actgtggaat ggtttctgag cagagcgtgg cggagctgaa gcagaccctg ctggcgacca 180

cgctggagct ggaagctgcg agggaagagc tgaagcggaa ggag 224

<210> 31564

<211> 413

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-060-Q1-K1-C10

<400> 31564

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catgaaatgc agatggagtc ctggctgcct tgagagtatg atgcataaca gtgatagctt 120

cagtgcggag tctgctataa ttgaaactga tgttttcatg gagaaatcaa ccccgacagt 180

gaagtttgag attcagcttt acaaaacgag ggatgagaag taccttcttg acctgcaaag 240

ggtcagtgga tcacatcttc tctttctgga cttgtgttcc gcctttctaa ctcagctgag 300

agttcnttga gcctgacatg attggctttc ccccaaaaaa aagcacttcc ttgatgcacc 360

caggtggagt tcaaggtaca tttgagatgt acataatgac catttttaat cct 413

<210> 31565

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-C11

<400> 31565

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cttagtctct tattagctct aggcctctagc tagccgcgcc actccttcgt gtagccatca 120

gccttctcat cgccaccaat ggccactgcc gaggtccaga ccccgaccgt cgtggcggcc 180

gaggaagcgc ccgtgggtgga gaccccgccg ccggccgtcg tgcccgagga gtctgcccc 240

gcccaggccg aggccgaggc cgaggctgct gctcctgctg atcccgagga gcttcccgcg 300
 gccgagcagc aggcagccgc cgaggcgtgg ggggaaaggc cgcggtcct gctggtgccg 360
 aggagcccg t cgcggccgaa ccggccgcg aggcggaggc t 401

<210> 31566
 <211> 429
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-060-Q1-K1-C12

<400> 31566

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 tagattctga tctgagttag ggtgacctat ttttcttgct tgccagtgtg tcggatgaat 120
 ttaacagatg ggaagctggc caagttttgg caagtaagtt gatgctcagt ctgtagctg 180
 atttccagca acagaaaaca ctggttctaa atccgaaatt tgttgatggg attagatcaa 240
 ttctgcgcaa cacaagcttg gataaggaat tcattgcgaa agcaataact ttgcctggtc 300
 aaggggagat tatggatatg atggaagttt tgggnncccc agatcctgat gcagttcatg 360
 ctgtccgtaa ctttattaag aaggagcttg ccgtgcaact taaagatgat cttcttgctg 420
 ctgtgaaaa 429

<210> 31567
 <211> 296
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-C3

<400> 31567

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 ccggacttcc taacgtcgcc gtctgccggc acgtcccggc tcgggaaatc ttaaccgat 180
 tccctttcgg gtgacgcgcg tgatcgcgct atctgccggg tttcccaccg cccttaagat 240
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<210> 31568
 <211> 287
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-060-Q1-K1-C5

 <400> 31568

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 tatgggtctga aattacaggt cttagtgcgc ggtttgtctg accgtgaggc ggaaaatata 120
 actctctacg aggcctcagc cgtcgtctac ggacttecta acgtcgacgt ctgccgccac 180
 gtcccggttc gggaaatctt aacccgagct ccccttcgcg tgacacgcgt gatcacgcta 240
 tctgcctaga ttcccccgtc ccttaagatc ggctgaccca tgtgcaa 287

<210> 31569
 <211> 325
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-060-Q1-K1-D1

 <400> 31569

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 gaagacgacg actgtcttcg tggccggctc gacggggcgc accggcaagc tcgttggtga 180
 gaagctgctg gctaagggat tcggcgctcgt cgccgggtacg acggacgtga gcagggcccg 240
 cggcagcctg gcccaggacc ccaaccttca gctcgtcagg ggttacgtta cggagggagt 300
 cgacaagctg gtggaagccg tgcgc 325

<210> 31570
 <211> 172
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-060-Q1-K1-D10

 <400> 31570

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 tctattagac gaaggccggg ccatccaagc caacgtactc actaacagaa cagcatagcc 120

actacagtat gccgatgatt accaacacct taagcaccag cctacaaccc cg

172

<210> 31571

<211> 420

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-060-Q1-K1-A4

<400> 31571

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accggccaag aaggctagga agaccaagaa ggttgcaagt gttagtctcc tggggttgat 120

ttgcgttgca atgctttgtg ggtgtttgat tctgcagta aatcggtatg atgactctgt 180

tgatgctgga gaaggtgctg catacggctc atctcatcgt gggaggggtgc tggctgttga 240

ggggcctcat gataatgttt cagatggtgt cgatccaaag ccgccacagc gtgccagtga 300

gacgcttnca gcactgttgt atctacaaa gaatgggaag catgtcaaga ttaatgggaa 360

tcttgttatt aagtcgattg ttgctagtga gatagcttca ttgcaaagt ctggcaatga 420

<210> 31572

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-D11

<400> 31572

aaaaaaaaa aaaataaaaa atttttataa aaaaaaaaaa aaaaaaaaaa aaaagaaaag 60

ataaattaaa aaaaaaaaaa gaaaaaatta aaaaattatt aaatttcaaa attttctttc 120

ttatttatcc ttctttccat ttttttctat tgttctttcc tttttcaatt taattctttc 180

atttttttta attttttctt cattttaata cttttgcttt acttattttt ttctcttttc 240

tgtttattcc cttttggcct cttttctttt tttcttacat gcctttattt ttctcttttc 300

ccattttttt 309

<210> 31573

<211> 237

<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3068-059-Q1-K1-G8
 <400> 31573

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gggaagacga ctcacatctc gccactcgat tacagctaga tcgagggagt aagtgagagt 60
gagagccatg acagagctgc tcgacacggc cgtgaccagc ctactacacc tgccggaggt 120
gctggaccgg ctcgccgacg catacggcga cgggcggtcg gccggccacc acgcggcgca 180
cggtcacggt cacggacgcg ttcacgggct cggcggcagc tgcggatcgc cggtgga 237

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<210> 31574
 <211> 365
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-G9
 <400> 31574

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gctgcttcgt cggcggcctc gcctgggcca cggacgacca ctcccttcac aacgccttca 180
gcacctactg cgaggtcctc gagtccaaga tcctcctcga tcgggagacg cataggtccc 240
gcggcattag cttcgtcacc ttctccactg aggatgctat gctgaacgcc atcgagggca 300
ttaactgcta ggagctggac tgtctcatca ttaccgtcaa ctatgcccac tcccgtgct 360
gtcgt 365

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<210> 31575
 <211> 440
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-059-Q1-K1-H1

<400> 31575

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tcgtcgcgtt ccccgacgt ggtgcggcgt agcctgccgc aggagcgcgc ggtcctcctg 120
gagcgggagc cctcgtgcc gccgtcgcag gccgtggacg gcggcgacga cgacgacgac 180

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1
 gacctggacg ccacgtggaa cgccatcatg cagaagacgc gcccgggcggc tccggcttcc 240
 acccctccag ctccagctcc agtccccgt cccgccgcgc accatcagca acggccgtcg 300
 ccgagggccc gggacccgtc ggtcggcgcc gaggagatga accggcggtt cgacgacttc 360
 atcaagaaga accgcaactc cttcggccgg caataggcga cctccgttac gatccgacca 420
 ctttcccgc gtacgatgcg 440

<210> 31576
 <211> 290
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-H11

<400> 31576
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 ttccaacttc atacctatgt ccacgtgtca cctaattcca attccactgc cctaagctat 180
 tacaacttac atactggaaa aaccttcctt ttcccact taatcacttt gcacctaattc 240
 accattcctc aatctgatct tcattgccaa aaaccccaac ccaatcccc 290

<210> 31577
 <211> 396
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-H2

<400> 31577
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 cagttccggt ctgcgcggc ggtcgccgga gcgagcagag ctggcgcaag gcccgttgga 120
 tccgcggcg ccaagattaa tgacgccgat gtagccaaac agatccagca gatggtgcgg 180
 ctcatccgct atgaggccga caagaaggcc aacgagaact ccgtcttcgg ctacgaggaa 240
 tacaacattg agaagctgca gcttgttgaa gctgagaaaa cgacgattag accagactat 300
 gaacgcagag agaagcacgt tgaaatacgg aagaaaaatg agcactctat gcagatgaat 360
 gcttctcgca taaaaagtct tcaagctcac gatgat 396

<210> 31578
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-H3

<400> 31578

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aaggcagtga ctagagagga tcatecttct tccttccgag tataaaaaag taggcatcca 120
gatcgcccaa caaggcaaga ggcgcttcaa tacacatgga agatgagcga gtacttctga 180
tacaaagagt gttcggtagt tattatcaaa ataaataagc cgagtaaaac tccatatagg 240
atccaacagt taccatTTTT cattaatcac agtttaattc tttttctgta cgcacagttt 300
gtacgcgagg aatgggtcaa ttcataatcc atggtgagca aatgtaagtt tactccacac 360
tagatgtgta tagcttggtt ggtgctactg ctatcgatgt aatagcgggc cacgtattta 420
cttcacatgt tctgtggatc aatatactat gactgatgtc 460

<210> 31579
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-H4

<400> 31579

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agctgacggt cttgtgtttg ggggcgatta agtagctaata tctgagattg gccatctgat 120
ttctgagatg agctcccatg ttcataatat ttgcgctgtg ctaaatgagg tataatcaat 180
aagtgttat gctccaattc ttttatggtg accatctaaa atagaaaaca gtatgacaat 240
tgctatgtca tcaaacatga tcacatggc aaatcttata tccaagctg tttatatgct 300
caacaggccg cacttgaaga aatctatatc agtttgagga aaactccagc tga 353

<210> 31580
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-H5

<400> 31580

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gtgtgagggtg ctgatccaag cccatcaagc agcacttgcc tgacagtggg ttccatatcc 120
gttgcatggc ttgcaaggga ggggaagctg tctgtgatcg gaccactatc catctaatac 180
tcaaggcgga agcaagttgt cctaccattc ccgatgctct catagtgggtg atcacgcggg 240
acaaggggag gagtttctgc atgctatcct agtttgcctt ggacagaggt gagtgtgcat 300
tgagattaag ctttgctctg gacagaggga ggccaaagta agtttggggg aagccttcca 360
acttggcacc gcgttgacag atcgagggtga attaacgggc tcgatgttgt ggggtcaacat 420
gaatgggaac aagggtgctc tcacgtaat tgat 454

<210> 31581

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-H7

<400> 31581

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gtccgcgccg accgactcca ccttttcgtc ggcgcgctcag cgtcgcagct ccaactgagcg 120
tgcgatcac cggcgggagg caagggcaag ctgtggctcg gatagcgctc gctgacgcac 180
gcttggcggg gatcgctac ttcattccgc tcattccccga cttccccaaag ccagagatca 240
tgttccacga catcacgacg ttgtgtctcg atcccaacgc gtttcattac accatcgacc 300
tctttgtcga gcggtacaag gaccaatgga tcaccgtggc tgctggcggt gaagctagac 360
ggttcatttt tggctcctct atcgctttag ccattggcgc aaaatttgtg 410

<210> 31582

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-H8

<400> 31582

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gcgagcgaga aattgcatgg gacatcaagg agaagctagc atatatagcc cttgactatg 120
agcaagagtt ggaaactgcc aagaacagct cttcagttga aaagagctat gagctacctg 180
atggacaagt aatcaccatt ggtgcagaga gattcaggtg ccctgaggtc ctcttacagc 240
cgtcgatgat tggatatggaa gctgctggaa tccatgagac aacatacaat tcaatcatga 300
agtgtgacgt ggatatcaag aacgacctct atggtaacat tgcgctcagt ggtgggttcga 360
ctatgttccc gggatatcgt gatcgtatga gcaaggagat cactgtcctt gcaccaagca 420
gcatgaagat 430

<210> 31583
<211> 200
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-059-Q1-K1-H9
<400> 31583

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atgagatgat caaatcagat gcgcccgaac acttacatcc tgattcattt aaggctatca 120
acgactaacg cattcccatg tactacagcc ccattattca tgtccagctg ttcattccact 180
tctctgtata atagcccaac 200

<210> 31584
<211> 188
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-060-Q1-K1-A1
<400> 31584

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cacactacac gtacggatta aacgaaaagg gggccagaac acgagcctaa cggagacaaa 120
ccagctctcc tgggcgcccc taaccctgc tagcctcgcc agggtcggac cagctctccg 180
agtcgact 188

<210> 31585
<211> 427
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-060-Q1-K1-A11

<400> 31585

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ccggcgcgca gcagggcggtg tggagcatca tcacccggcc catgttccag agcatgctga 120
gccaccgcgg cgacagcggg tgccagggcg ctttctacac ctacgacgcc ttcattcgagg 180
ccgccagcaa gttccccggc ttccggacca ccggcgacga gcagacgcgc aggcggggagc 240
tcgccgcctt cttcgggcag acgtcccacg aaaccaccgg tggatggggc actgctccgg 300
atggaccgtt tgcttgggga tactgcncgg ggggggggtg aaggaacaga aacagacgga 360
cccaccctac tatggacgag gaccataca gctaactcat aagtacaact acaggctcgc 420
cgggcaa 427

<210> 31586
<211> 425
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-060-Q1-K1-A12

<400> 31586

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tgctcgccgg ggctgccggc gccggcgcgc agcagggcgt gtggagcatc atcacccggc 120
ccatgttcca gagcatgctg agccaccgcg gcgacagcgg gtgccagggc gccttctaca 180
cctacgacgc cttcatcgag gccgccagca agttccccgg cttcggcacc accggcgacg 240
agcagacgcg caggggggag ctgcgcgct tcttcggcca gacgtccac gaaaccaccg 300
gtggatgggc gactgctccg gatggaccgg tttntttttt gcctggggat actgccgggt 360
gaaggaacag aaacagacgg acccacccta ctatggacga ggaccatac agctaactca 420
taagt 425

<210> 31587
 <211> 304
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-060-Q1-K1-A2

 <400> 31587

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 acgattcgtt tccatcggca tcggtgctgc tcgagctcga ctgctgcagc tgctaccagt 120
 agtgagctgt gtgtgtgtgt agtatataca atattcgtat aaactgctgg tctcaatcga 180
 gtcgtcgccc aatcggttga atcggggagc agaggcatcg gcccacgcc caatcatccg 240
 gcccacaaatt cctagaagca cccacccctc cgggcgcgag atcccacgcg cgttccttcc 300
 acag 304

<210> 31588
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-060-Q1-K1-A3

 <400> 31588

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 atgtctgctg tcttcggaga gattagttca aaacctgtga ctgcaggggtt gcgaaagggtt 120
 accgatgaca tgaagtctaa aaaccgcgct gatagaagcg gtgttgtcag cagcactgct 180
 cctgctcctg ctgcagctcc tgaaaagact tcccgtgcag ggtccttctc tttcaaactc 240
 ggacccccta aactggaact tcagatggga cgcaaattggg tggctgagaa tcaggttggc 300
 aagaagaccc ttgctattga tgattgtgat tccagacaat ctgtctatgt gtatggatgc 360
 aaggattctg tccttcaagt aaacggcaag gttaacaata tcaactggtga caaatgcact 420
 aaagtt 426

<210> 31589
 <211> 379
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-059-Q1-K1-G7

<400> 31589

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cattgagcat gatctattcg agcagcttat taaggaaaca tcatccgata cagaacaaac 120

atcgcaaadc gaccacagta ttagcgcaac atcctgcaat acagtacaat acatcacatc 180

actagtcacg cctcattacg ctactacact ttcttcaaga ggtgggtactc tgatatcgcg 240

aaaccgaacg acgcaacgag cacgtaggca gcagcggtact attatgatac gtactagagc 300

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<210> 31590

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-D8

<400> 31590

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gcgagctagc agagcgggcg caggcacctc cctcctcaag gaacatggcc cgcacgcagc 120

agttggcagt agtggcgacc gccgtggtgg ccttgggtgct gctggcgggcg gctacctcg 180

aggcgcccat cagctgcggg caggtggcgt cggccatcgc gccctgcac tctacgcgc 240

gcggccaggg ctcggtgccc tccgccggct gctgcagcgg cgtcaggagc ctcaacaacg 300

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<210> 31591

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-E11

<400> 31591

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aaaccaatc cggaagactt taaaaaaaaa acaggaagta aaaaaaacca aacacattaa 120

tatctaacia actaaaatga atacaatcta aaatccctta accaccatcc aacttaacgc 180

aactcctaaa ccaaacaacc tcaataattc caactacaat agcatatatt cacactgttt 240
 caaaaaaaaaa actcctagaa aaacctctga cctaaccaac cttttcccct t 291

<210> 31592
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-E12

<400> 31592

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 agcgaagtaa gtaatcgaaa aactttcttc tttgttcgtc ctatctataa gaggagagca 180
 tatgaaaaat gtaaccatt cttttgtttt tttagctcac tggccattcg ctgggagttt 240
 cgggcttaat accgatattt tagcaacaaa tctaataaat ctaactgtag tggttggtgt 300
 attgattttt tttggaaagg gagtgtgtgc gagttgtcta tttcaagaat agattggatc 360
 tatccggctg cactttagaa tatTTTTtagt atTTTTTTtg ataaataaga aaaggtgcac 420
 gatctcgacg aattac 436

<210> 31593
 <211> 330
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-E4

<400> 31593

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 cacgaagaaa tggctctgtt gtgtgacagc cagccctacg caatcctgag gaaggcaatt 180
 gcatgctctg gaaatactga ccctttaatt ctctatacat actatccata agacactgta 240
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 tatgtatggt gtgagagttg tcggcataca 330

<210> 31594
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-059-Q1-K1-E7
 <400> 31594

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 gaccggacaa ccagcgtgag cgcgaccggc gacatgactc gcggcaacca gcgtgaccgc 120
 gaccgtgagc gcgcggcggc gcggaagccc aacgccaaga actcccagga cgggctcacc 180
 ccggagcagc gccgcgagag ggacaagaaa gctctggagg agaaggcggc caagaaggcg 240
 cagcaggcag cggccggcgg caccgggacc tccacggaca acaacaagaa caaggcaggt 300
 ggcaagaagt aggaggcagt ggcgcgccgt cacctctgta cgattaatcg atgccttgag 360
 cttgtaactt gttcgcaccc ttgtaggtgc gatgcttggt gggtcataaa ctctgatgat 420
 atcgagattt ggtgatgaga at 442

<210> 31595
 <211> 230
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-059-Q1-K1-E9
 <400> 31595

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 tcctcggcgc cgtggtgatc gcgtcgctcc tcctcgcggc tgagagccgc cacattgccc 180
 gaaaagacct gggcgtctgc cttggtggtg gcggctgctt ctggtgttgc 230

<210> 31596
 <211> 419
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-059-Q1-K1-F2
 <400> 31596

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 ctgccaaaaa taaaaacgcc agcaccttct cgtttggaga tgccaacact gacagcacgc 180
 caaagacggc aaggaagata accgggaaga aggtcaacga cctcaccggc aacgacatct 240
 tcaagggaga cgctccgcca gcttctgcag agaagcatct gagcaccgcg aagctgaagg 300
 agatcactgg aagcaacatt tttgcagatg ggaaagaacc aatccgcgag cgtgtgggcg 360
 gaaaccgcaa gcctnctggc ggtgagagca gcacgcgct gattaacata atccgggac 419

<210> 31597
 <211> 273
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-F4

<400> 31597

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 atgcagcaca tgcacaagca ggaccttggc gaggtcggca ccatcgcacg tgggcgcctt 180
 cgactatac gagaagcacg aagcgaagaa agactcggag cacgcgcacc gacacaagat 240
 cgaggaggag gtcctggagg aggttgtcgt cag 273

<210> 31598
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-F6

<400> 31598

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 tggccggcgg ccgtgctcgt cagcaatggc ggtatctccc cacacgtcc accttcgcc 120
 gccgccttc tcgtctccac tccgggcgcc tacaccaccg tccccggaac cctcctctgg 180
 tggacacgtc acctccgccg actcgccgaa tccgccacgc tactcgcccg ttcccgcccg 240
 aacctgctcg gcctccccct gccccgatcg cgcgccctcg acctagattt actatccatc 300

cattctctcg tgaaccctt cgagcgggtc gccatccgag agatgcgcac aaggcttgcc 360
atgaccaagg acgaagattt ggcgctcacg gccctgggtca ggggagccga tcccatttc 419

<210> 31599
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-F7

<400> 31599

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aaaagaaaaa aaaaaaaaaa acaaaagaat acaaaataac taactacaca ataaagacaa 120
ctaaattaaa aatcaattaa ccggactttg acaacagtac acactggtaa aaccctgcct 180
taaccaact aaatgtcttt tcagaacatt cgcctatccc aagatgggtat aatacctaac 240
agaccgcac ctatggacct tcccaaaact tgctcagcct caatggctaa tgcaaacactc 300
cctgtacatg ctcttcaaac ccggctggag cggtagttac tcccagagat gcacataaag 360
ttgccaatga cctaggacca ggatcttccg ctcacttgcc ttacttaatc gccacgatcc 420
cattgctttc cctaccaagc tctaaat 447

<210> 31600
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-G1

<400> 31600

gaggaggccc gcgagcccga ggccgtcgcg ctgccgttac gcgctgtcgg cgtgcgacct 60
cgggtgcccg aggaaggcgg gcgctggga gacggccgtc acggaggccg ccgagacct 120
cagcaaggac agcttctcca cgtccaagat ctggatggcg tcggccgccg ggagagagga 180
agacggccgc cggcccgccc agagacgagc cgcgtcggtc cgggtggccg cgatcgctc 240
gggcgcctgc aagtggcacc gcagggacga ggaacctttc gacgtcgagg cgggaagccc 300
cggcggcgac aatgccgtct cgtctctgac agaagagagg ccaccgtcgg tggctatggc 360
ggcgatggtc tgggtcgccg gcggggggca cgggagccat tcgtgatccg cattgggttg 420

cacgttggtt caagttcaac acactacaca ca

452

<210> 31601
<211> 286
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-G2

<400> 31601

cccacgcgtc cgcagactca tgccgcatgt ttaactacac tctcaatctc tctgctaccg 60
aggagtacgc taattaaggg atctatcgtg gatacgaagt ggactggaac cagctttatg 120
attaacaagg acagcttctc cacgtccaag atctggatgg cgtcggccgc cggtagagac 180
gaagacggcc gccggcccgg ccagagacga gccgcgtcgt tccggtggcc ggcgatcgcc 240
tctggcgcct gcaagtggca ccgcacggac gaggaacctt tcgacg 286

<210> 31602
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-G5

<400> 31602

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agtggatga agctatgaag actggacatg tgatcgaatg gttagtactg gtaacaaact 120
atcacacttc catgtggtta gtacttggca gaacacatat acacttccat gttagccacc 180
tgtagcaacc gacataacat aatggccatg cgatcattag cataacatat aactgcacat 240
ggacaaccat gatgagcaca tgaaactgct agacatatgc cctctggaga tgttgatgag 300
accagctgac atcatgcata ctgcatagtt ggcaagatgt aagtacatat agactactcc 360
tacagtcctt aattatgata tgaatgtggc tcgccctgct gtctataacc atcatcacac 420
agtcaaatgt g 431

<210> 31603
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-G6

<400> 31603

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agctaccgta gtaggcgggc agtagcactg aataatgac ttatcacaaac tttttttttg 120
catggcaatg ccttaccagg tatctatggt caagaggact tatgatcacc ttcttaaaga 180
tacttacttt ggcatgtata aggaagcgac acgaggaaat ccaaattatt ttctcaccta 240
tggtaatgga aaatctgctg cacgaattca agaccatctc cgtactaatg gcgcgcacag 300
gtggcataat tatgcaaaga gcccaaata gatcaagttg gaagaagctt gcagtctgca 360
ttatacatc actaaatttt cagatttgac atctagacgt gatcgctgtg gatgcaagcc 420
tacgaaagaa gatgttaaga gat 443

<210> 31604

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-D5

<400> 31604

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gagttatatt tggaaggggtg atagaccatg acataaggta actgctaaca aatttgcaat 120
atatcacaag catcgctctt caatggcaga cactgttcaa ttaagaaggc cagctgctac 180
aacttccaat ataaatgctg atattgtgag aacatccact ctgcaatctg catctctacc 240
gaaacaagaa tacttaacaa ttacattcaa gatctatact ttaagaaaac gtgactagag 300
tgcattatgt gtgtccagct caaatatcct cattgtcaca aaatctacta tcc 353

<210> 31605

<211> 243

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-B6

<400> 31605

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aaagaaaaaa aaaaaaaaaa aaaaaagaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaataaaaaat aaaaaaataa aataagaacc gaaaaaaata caattgcaaa aatgcatata 180
actcataagt tagaaaacaa atatgaacta accactgacg tgaaagaaaa tacaatggaa 240
ata 243

<210> 31606
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-B8

<400> 31606

accacgcctc caaagcctcc gacacctaag cttacccac cgacgtacac tcccacaccg 60
aaggcgccgg ccaccaagcc gccacctac acttcgacgc cgccggtgtc tcacaccgc 120
agcccgctt caccatactt ctagaaagcg atgcctacca taccacactg ctgacagtct 180
ctggagcatc taggtggtct ggatcaatgg aagggttgtg tcctagccag ccggcaatga 240
tgagctgctg atggtactga tgatgataag aggccaatgc taccctacta cgtaccctcc 300
tctttgtgtg ctgtcattcg tccccgttag acgatcgatg agtgaataac tcagagctct 360
ctgcaagggc ctgtctt 377

<210> 31607
<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-059-Q1-K1-C11

<400> 31607

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agggaaactt ccattttctt gaacacgggt aaatgccatt ctatctcaac tatggcgcat 120
ttgaccgagg ttttcgtctc aagtccactc ctgaagccct gccgattgaa gcagaaaggc 180
tcttcttatt ctttttaggg tatggtatcg gactcgaaac cttcaaagtc gctgctacgt 240
gctctgtggt gcgtctcaga gccctattcc atgtgggggt tggaagacat ttatttgatc 300
ccagagggag gaataattag accttcctct gggttgagga tacgtagcag tggaagatgc 360

cggtacatta tacgtctact cacttnctaa gcaaaaatca cggccaaact ttctttcttt 420
tcgaaaactg gattc 435

<210> 31608
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-C12

<400> 31608

gcgtccggaa ggactccggt cttagcctta agcagtttat cactatccat caaagcgaca 60
accctggtgg tttcttacat tttcttgaac acggctaaat gccattctat ctcaactatg 120
gcgcatttga ccgagggtttt cgtctcaagt ccaactcctga agccctgccg attgaagcag 180
aaaggctctt cttattcttt ttaggggtatg gtatcggact cgaaaccttc aaagtcgctg 240
ctacgtgctc tgtggtgcgt ctcagagccc tattccatgt ggggggttga agacatttat 300
ttgatcccag aaggaggaat aattagaacc tcctctgggt tgaggatacg tagcaatgga 360
aggatgccgg tcattatacg tctaactaac ttctaagcaa aatcacgggc aaaactttct 420
ttcttttcga aaac 434

<210> 31609
<211> 299
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-C3

<400> 31609

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gagtcaaatg gagcatgac atgacattgg gaccaccata agggataatg attatgcctc 120
atgcagctac ctggattact ggtgaggctg agcaaggaga ggattctggt gagtcgggag 180
acgatgatga agatgatgat gatgaagacg atgacgaaga tgatgaggat gaagaagacg 240
atgatgatga tgaagaggat catgaggaag aaagcaagcc agcatggaag tcaggatct 299

<210> 31610
<211> 205

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-059-Q1-K1-C4

 <400> 31610

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 agcttactgc gttactgatg aggctgtgca aggtgaggat aatgttgagc tgggccacga 120
 ttatgaagat gatgatgatg aatacgatga ccaagatgac tatgatgaaa aagaggatca 180
 tgatgaggca gcgcataatg aggac 205

<210> 31611
 <211> 246
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-059-Q1-K1-C7

 <400> 31611

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 ggggaattaa aagaaaaaag aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaataaaaaa aaaaaaaaaa aaaagtaaaa acaaatataa aataaacaca caaaactaaa 180
 aaaaaaatca gcacgatcaa aaacaagcaa ctgaacaaaa aacgacaaaa taaaacaaat 240
 gaatca 246

<210> 31612
 <211> 187
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-059-Q1-K1-D1

 <400> 31612

 ttcaaaccga tcgtcgtttg cttttgctcc ttgccacgtt caattaatgc ttgtgtatgc 60
 atgtatgtgc caatatgatg tgccgttgcc ctgggtccatt catttccctt ttttttgggg 120
 gtgaaataga tgtaaagatc tcgtcttgcc tgccgtactc gcgctgtgtt gggaaaaaatt 180
 tggttttt 187

<210> 31613
 <211> 413
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-059-Q1-K1-D11

 <400> 31613

 ctcgctccgcc cgctcgctccg aaagggtttca gcacgcctcc ttttcccaag gtagcttcta 60
 agcttcggtc ggtttctcaa cgacctgggc ggcttaacca atgtcacgtt cccttggaac 120
 gcgaacgccc taaccacctt ccgtgcctac agcgagcata cactcacatt gctatcttga 180
 attcttactc aaaggcctac aaccataact cgtcacactc gatcatctac ccaatctcca 240
 atcaaccctt cgccttttcc aattttttta aacaacttta cccatacgac taggtataaa 300
 cactaacaca gcgccgtcat cagactgaca aaaccaaacc ctactaccac attccaaacc 360
 cactcgaact tccaacatc atagtgtaca ttacatcaca cttcaaaaat cac 413

<210> 31614
 <211> 455
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-059-Q1-K1-D12

 <400> 31614

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 tccaatggga acaagttcca ttcttgctg ttccaccga gctattccaa tctcttggtt 120
 attggaggct accagtctct cgagggttg aacatggtga aaaaccagag cctaaccgta 180
 caagctcatg aaggtcta atgcggcgctg gcgcagtcac cagtcacagg gatgatagct 240
 tctgctagcc atgacaactc tgtcaagggtg tggaaatagc agtaacaacg attatgatgc 300
 acctaggtag ctttttttcc aaggcaagt aaatttctcc tgctgaagca taaaataagg 360
 aagagtagta aattagatgg ttgccggctc cggttcagct gtccaagagc agtgagtttg 420
 ttgatgggtt gtattgtatt tatgctgata ggctg 455

<210> 31615
 <211> 454
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-059-Q1-K1-D2

<400> 31615

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atgtgggtgc gtatatattcc cgacaaaccg gttacaataa gaccacacaga aacacgtatg 120
ggctcgggaa agggatcccc cgaatattgg gtagccgttg ttaaaccagg tcgaatactt 180
tatgaaatga gcggagtatc cgaaactgta gctagagcag ctatctctat agctgccagt 240
aaaatgcccc tacgaagtca atttcttcga ttagagatat agaaccctaa aaaggaatat 300
tgaagataaa aaacccttgg tttttcttctc tggaaagaca atatttcttt catccttttg 360
cattgaaata acaaatggaa atccaaataa tatgattcaa cctcagacct ttttaaattg 420
agcagataac agtggagctc gaaaatngat gtgt 454

<210> 31616
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-D3

<400> 31616

gggttggtt ctctccccc tccggttcgg tttcgttttc gtgaggttct ccgggggttcg 60
gtgtcgtggg tgagcggatc gagatggcgg cgtcggatgt tgagtaccgc tgcttcgtcg 120
gcggcctcgc ctgggccacg gacgaccact ccctccacaa cgccttcagc acctacggcg 180
aggctctcga gtccaagatc atcctcgatc gggagacgca gaggtcccgc ggcttcagct 240
tcgtcacctt ctccacggag gaggcgatgc ggaacgccat cgagggcatg aacggcaagg 300
agctggacgg ccgcaacatc accgtcaacg aggccagtc ccgcggcggc agctgcgggt 360
acggtggtgg ccgt 374

<210> 31617
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-D4

<400> 31617

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agaggtagcg ggtcatccga tcgagaagcc ggcttcta gtcacctacc gctaattcat 120
tgcccgcttc tccataacca cggaccacca ctaactctac aactccctaa gtaactaccg 180
ttacgtccta tactccaata tcattctgga tcagtagaca caaagcccc tcagatcccc 240
cttctaacc ttctccacgg atgaagcgat actgaacgcc atccatggca tgaacagcaa 300
ggcactagac tgccgcaaca tca 323

<210> 31618

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-B5

<400> 31618

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gcgtgtgacc gaaatggcgc tgccgaatca ggggaccgtt gattaccca gtttcaagct 120
cggcatcgtc gggtatggcg gaaccgggca aactacattt gcgaaaaggc atctcactgg 180
aaagtttgag aagaaatatg aaccaaccat tgggtgtggaa gttcatccga tggatttcac 240
cactaactgt ggtaagatca agttctactg ctgggatacc gcacggcaag agacgtttgg 300
tggaactcagg gatggatact atatccatgg ccagtgtgcg atcatcatgt ttgatgtaac 360
ctcaaggctt acttacaaga atgttcctac gtggcatagg gacctgtgca ggggtctgtga 420
agacattc 428

<210> 31619

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-H8

<400> 31619

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tctgggggtc aagatgagtc cacctccagg cccccagcc ggccacgccc tacctcctgg 120

ccccacccac ggcgcagcac ttccccagct gcctcctcat ctcttccctc agcaacctct 180
gatgcacagg ttcccgacac gtactcaact acgaccaccc ctaccccatc accagcgtct 240
cacacgctta tcatcaatat ca 262

<210> 31620
<211> 446
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-058-Q1-K1-H9

<400> 31620

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cacggttcaa cgccgtcagc ctccccctt tctctggaac gtgggcccac gccacggcg 120
tccgccgtgc cgtcccccg cctcctgtggg ccgtctgggc ccaattggcc gcggccgcgc 180
gtccccgacc aggccgaaat ccccccccc cggcccggtt aacctggaat tccttttctt 240
ttttcctttt ccatttttca catatataat tatatgttga tattttatgc accaaaaata 300
gtttaataaa attatagggc acaaaaaataa taaggtataa taattggcac accccagtaa 360
gtcaccatga ttgatgtatt gttcttattt gtgcttgta gcggaagagg gatcagatcc 420
tncggaattt gtagctccgg gacaag 446

<210> 31621
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-A1

<400> 31621

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cgcccatgtc ggaggaaccc gcggttgctc tggcctcctc cagctacgag gttgacctcg 120
ggaacctcat ggcgtacgat ccgtcgcac acgtcgccac cgcctccagg gaggagctga 180
gacaggagtg cctgcggaag ggtacagagc tggcgcaggc ggtggccgac gtcctcttcg 240
cgctgccgcc caacgaggac cgcgacggcc ccattatcca cctcccgccg cccaccttca 300
gactcccgcg ggagaagcat ctaccaagc ccaagccacc gaccaagtgg gagctgtttt 360

gcaaagcgaa aggaattacc aagcgcaaaa tgaacaaacg tgagtgggat gagcaaactc 420
aatcctggaa gcggactcat g 441

<210> 31622
<211> 419
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-059-Q1-K1-A10

<400> 31622
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taaaaaagac gtgggcgcca actaaagcat ctgaagaagc agctaacgtt gatggcgaag 120
atgacaaagc tattttctaata gaacaagaga ctggtgttcc tgataaagat gagaaaactg 180
ttgagataaa aaatcataaa aatgtgacta atataagaac aagtgtcacc aaagagaatg 240
gaagccataa acgtgaatcc aataaccag gaaagcatct caagaaaaat aagaataatg 300
ctaccaaaaa aattgatggc tctcacagca ctgaaacaaa tataagtggc aaagaagagc 360
atcgcgaaca aaccaagaaa atgagtcaca atatgaaatt tgcttctgat agaaccaa 419

<210> 31623
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-A11

<400> 31623
cgaaagaaaa aaaaaaaaaa aaaaaaaaaa aataaataaa aaaaaaaaaa aaaaaaaaaa 60
aaggaaggat taaaaaaaaa aaagaggcag caaaaaaaaaa aaaaaaaaaa aaaaagaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaacaa 180
agaaaatcaa aaaaaaacca aagaaaaacc aaataagaaa aaaaaagaat acaccaaaaa 240
tatcagaaca caaaaataaa aaaaaaagac aaacacgaaa aaacacaatg gaaccataaa 300
aaaaacaaag aaagacaaaa ggaaagatac ccataaaaaa aacacataaa aacaaaa 357

<210> 31624

<211> 289
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-059-Q1-K1-A12

 <400> 31624

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 aaaaaggaag gtttaaaaaa aaaaaagggc gccccaaaaa aaaaaccaa acaaaaaaaaa 120
 acaaacatac acaaaaaaaaa aaacgccaac cgttcaacat aacccaaatt tactgaccct 180
 tccatcccaa ctaaaaccac tgctaaaacc ccacctaacc ccaactaaat ggccttgcatt 240
 aaaaaacccc taaaccaga aaacctaca gctaaccaac ccaaacccc 289

<210> 31625
 <211> 436
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-059-Q1-K1-A2

 <400> 31625

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 caagagctgg caccacctca tccaaagaaa ccaaataac aaagaaaatc caaatctgaa 120
 gctgttgaag tctctatggc tgatgtcgag ccattctcaa ccgacgggtg tccaaaagt 180
 atgtctagcc cacgtgtaac aacaagaagc atgtcttctg cttatgcaac tagtccattg 240
 cctacaacaa ggacgaaggc atccattctc ccaggaggaa ttaatccgag gctcattatt 300
 agctagatat agtagttgtc attctctatc ttgcgtgtcg gcatggctgt gcaactattt 360
 tgtgtaacta tttttacgct atgcaacact atgtctgatg gtggtgctta tatattctga 420
 attgcatgaa ctcatt 436

<210> 31626
 <211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-059-Q1-K1-A5

 <400> 31626

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 agtcaaactc ctgaaaagga tgcgagagtt gtcctttctg gagtaagcct taagtatgga 120
 attgatttgt tggaaagtat ccaaagtggc cctaagaaga agagcacaaa gaagtcactc 180
 aaggatgttg tcacagagaa tgaatttgaa aaacgtcttc ttccagatgt catccctcca 240
 gatgagattg gtgttacctt tgaggatatt ggagcattag aaaatgtcaa ggaaactttg 300
 caggagttag ttatgcttcc tttgcaaagg cctgagttgc tctccaaagg acaacttatg 360
 aagccatgta aagggatatt gcttttttggg ccacctggca cgggttagac ca 412

<210> 31627
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-A6

<400> 31627

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 ttgagcagca gcaaccactg cacaggatgt cgtggcagac gtacgtcgat gagcacctca 120
 tgtgcgagat cgagggccac cacctgagct ctgccgccat agtcggccac gacggcgccg 180
 tttgggcca gagcacgca ttcccacagt tcaagccaga ggagatgacc aacatcatta 240
 aggacttcga cgagcctggg tttctggccc cgatcggcct cttccttggc cccaccaagt 300
 acatggtcat ccaaggcgag cccggcgctg tcatccgagg gaagaaggga tctggaggca 360
 taactgtgaa gaagaccgga caggcgctgg tgatcggcat ctacgacgag cccatgaccc 420
 ctggacagtg caacatggtg g 441

<210> 31628
 <211> 244
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-A8

<400> 31628

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 gatatggttc aattttaacc actggacagg acatctaatac agacatacgt acatgatcac 120

ctcatgtgct acatctaacc ccatcaactt agcttttccc acatagacaa ccacgacagc 180
 accgattgag cccaaaacac cgaattttcca caattcaagc catacgagat aaccaacatc 240
 atta 244

<210> 31629
 <211> 309
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-A9

<400> 31629

agccgactaa agcatctgaa gaagcagcta atgttgatgg ctaatatgag aaagctacac 60
 ctaatgaaca agagactggt gttcctgata aagatgagaa aactgtcgag ataaaaactc 120
 ataaaaacgt gactaatata agaacaagtg tcaccaaaga gaatggaagc cataaacgtg 180
 aatgcaataa gccagccaaa gcatctcaag aaaaataaga ataatgctac caaagaaatt 240
 gatcgctctg agagcagtga aacatataga ggtgggaaag aagagcattg ccaacaaacc 300
 aagaaaatg 309

<210> 31630
 <211> 307
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-B1

<400> 31630

tgcggactta tgtgacataa ctttcattta taagtaccac aagagaatca gcaggcacgg 60
 ttactcaagt aacggggcct agtacgatcc atctagcaat acattgcaga aactagagcc 120
 taaaagaacc aacacaaaaa actgcgcttt caccacggca tcctacgagc tgcacgaaca 180
 cgacagaagc catatacaca caactctctg tgatcacata atcgctagac tcaactcgta 240
 ctacgtaatg aaaggaataa ctagtggcct acaaaacagg ccacttacta tcaagactca 300
 ccaaact 307

<210> 31631
 <211> 417
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-B11

<400> 31631

cctgtagtag cctgccatga ctacgcgctg ctgcctggtc gtcgccactc tctcgcggg 60

gctgctctcg gtcagtgccg gcctcgagtt cggtttctac aacaagacgt gcccagcgc 120

cgagaccatc gtgcagcaga ccgtggccgc cgcgttcacc aacaactccg gcgtcgctcc 180

ggcgctcctg cgcattgact tgcattgact ctctgctcaga ggctgcgacg gctcgggtgct 240

gattcgactcc acggccaaca acaaggcgga gaaggactcg atccccaaca gcccgagcct 300

gaggttcttc gacgtggtgg accgcgcca ggcgtccctg gaggcgcggt gcccggcgt 360

ggtgtcctgc gccgacatgc tcgccttcgc ggccaggagc agcgtcgtgc tcaccgg 417

<210> 31632

<211> 60

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-B2

<400> 31632

cggacgcgtg ggcacaagta cgctgcgaat ctgagtttca tagaccgcg cacagatcga 60

<210> 31633

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-058-Q1-K1-H7

<400> 31633

ggccgtaccc gtaccgttac cctgcgtggc cgtccgactg ctgctgccac cacggccacg 60

gcgggtgccg ctgctgctcc tgcggcaagg ccccagagcc ggccccggcc cccgccccgg 120

ccccacccc gccgcagtac ttcccgagc acatgcccc gccgtacccc tgcaaccct 180

gcggcgccgg ctaccggatc gtctgcgagg aggaccctc ctacgcctgc gccatcatgt 240

gattcgctta ttatcaatat catcccttga tgagtgtacc gtacgtgtgc gtaccatggc 300

cttaattacc attataccca accncaccct aaaaaaac ccagtatgtc gtctcatcat 360

cattccgtac ctccctcctgt ataatcgccg tacagattca tcatatatat actctataca 420
tatatagcat catgtaaaa 439

<210> 31634
<211> 445
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-059-Q1-K1-B3

<400> 31634

atgaaaggcg tctgcttgcg gaaacaagat ttcttgtaga tactttgaca gaagaagaga 60
agggcaggaa taggactatg cttgacataa ttacgcttag agatactcat ccattgatca 120
ctcagattat cttcctgtat cagaactatt accatctatc aagaacagac ctttatgtta 180
ttcccattga gcctgctgct agtggtggaa tgaatggatt cctatgttta tctgaaagga 240
actggtatag tgtcactgtc acttctccag ttaaggggtt caatggcatt gctcagaaca 300
gagttttgaa tgctgcctat ctcaatctc agtatcacia acacatccca gagccttcag 360
cggnggtcat catacctgcg aagatactga agcctagtga tttcaaacc tttcctgtgt 420
tgtggcatca aagatatagt cgtcg 445

<210> 31635
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-F5

<400> 31635

gttttgggta gaacgctagc tcataggatt ttgggcttat ggcacacaga aaggagttgc 60
tggaacaagt ttggacatta ttgctgctgt gagatgtagt gctaggcaac agatggtctg 120
gttggtggat catggattcc atggcattga gaagcttgca aggctagatt gattgtgttc 180
tgccggggta aatcttgcgt ggcgttttga acgtggattg gtaaacagaa taccatcttt 240
tgaacgtcgg tagttccatg tccacagctg atgggtgggg cctcgaatgt cgtactgtac 300
gtacatgtcg atgattccgt ctcatgatcc tactactact atatccctgt tctatgtaag 360

atatgtgtac tccaattcag acaggatatg gacagctcac gattttttta tattgttcta 420
cacatacatt ttt 433

<210> 31636
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-F6

<400> 31636

gaaaaatagc aaattacagc aaaatttaag caacatcaac atattcagac catgacgagg 60
gacattggct atcacgaaaa tgccgctaag ttaaccgact accaattctg atcaciaagg 120
agtatttggc cagaagcccg caggaggcat taagttcaac ctacagttcc cccaactacc 180
aactaatatt ggtagcaga cttctccctg tgatcgcaaa aatattccct gatcctctta 240
tgggggccta gctagctgct tcccacccat gacccttcat tgacagtagt ttacaaccag 300
catcaactct gaaaaaatgg gtgacccatc gccttccatc ttataaatag tgcacgatca 360
ggtacagc 368

<210> 31637
<211> 202
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-F7

<400> 31637

aaaatatcaa attacagcaa aattgattca acatcaacat attcagacca tggcaagggt 60
cattttctat gaggaatatg cctctaattt aaccaactac caattcttat cacatatgag 120
tatttgttca taatccctca agatgcatta atttcacct acatttcctc caactaccaa 180
ctaatttgg ttatcatact tc 202

<210> 31638
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-F8

<400> 31638

aagaaaagat ggataaggat tgtattcttt aattatttct ctatgtttta ttacttaatg 60

tacgaatttc aaaaattttg tattctattg gattggattt gttcgataat tcgaagaatt 120

acaacaaaat ctttagaaat cacattttta gttaggaact tctatggatt ttattcttct 180

tcttttcttt ggatccaaaa tagaagaata aaagaatagg tataagaatt aagttaagtc 240

gatccaaaaa ggaaaggagg ttcatggcca agggcaaaga tgttagaatc cgagttattt 300

tggaatgtat tagttgtgtt cgaaagggtt ccaataagga atcgacgggg atttctagat 360

atagtactca aaagaatcgc cacaatacgc cgggacaatt agaattaaga aaaatttgtc 420

gttattgtcg caag 434

<210> 31639

<211> 164

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-G1

<400> 31639

cggacgcgtg ggaaaaaaaa aaaaaaaaaat aaaaaaaaaa aaaaaaaaaa aaaaataaag 60

gggatatgaa aaaataaaaa aaaaaatata aaaaatatta aacttcataa aattttcaat 120

caagtctaag tgctttcaaa tgtcttcacc atagtttact actt 164

<210> 31640

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-G10

<400> 31640

aaaagtcaac agattcagag acctgagatg cgcaaggaag ctgacaaagc ggggggcccgt 60

ggcaaaccga aaccggtgga cgacctgat cttctgagaa aaggttcaag ttgaagcacg 120

cactgtgggc acccgtttga tgggtgaacta tgcttgatcg gctcgaagcc agacgaaact 180

cttgtggagg ctcaaagaaa ttctgacgtg cagatcgctc gtttaacttg ggtatacggg 240

caaatgacta atcgaaccat gtaatatctg gttgcctccg aagattcact cacgatagct 300

ggagccttca

310

<210> 31641
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-G11

<400> 31641

cccacgcgtc cgccacgcg tccggcaact gctgaagttt gtatcttcag aaatcgaagg 60
catgggtacg gagcgatcgt ccacctgcca gatggaaggc ggcgtgatac ctgacgcaga 120
gatcctgcag aggctgcagg gatggacgag cttcagcagg gagctccctg ggatggtgct 180
ggagatcgag aggtcggat tcaaggagct ggtggacgag gtggtgcatg gggagtctgc 240
cgacggcccg gagatgaagg cggcaggcag gcggagaagg cggcggctct ttgcttgata 300
tggtttgtgt gaccatcacc atgcaccggg tgggttgctc aagtagatgg gcctgatcat 360
gctgtaactt tgattgccgt atgaactttt tttctctctc aaggagagg tgcacaagtt 420
gtactgttgt ag 432

<210> 31642
<211> 135
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-G2

<400> 31642

cgccaatgat atctgaagcg gcacgcgttc tctggagcag catggaggca tttcacttcg 60
tctgcggcat cattgggcat ggggttctgc aaataggta aactatgctc taacatacac 120
tgtattttgc gagta 135

<210> 31643
<211> 238
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-G4

<400> 31643

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 gtgcaggcct tcacgtgtgt ttgcctctct acctaaagaa taaatcaagc tagcagcaaa 120
 cctaccttcg gcgtgtgtct acttgcttat catagtgtgt gtccgtgtat gagagatgat 180
 gtactgtcac gaactcacgt gtgtatgaga gaggatacat ggtaagacta tcactact 238

<210> 31644
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-G7

<400> 31644

ggaaaattca ttattgaaag ttttaccatc agcttccaag acatcttttag tagagttagt 60
 gaccgtatctt ggtgtcattt cacatgattt atcttcaggt gctgcaatca agatttagga 120
 gagttattaa gctaccataa actatgtgaa aaacagtgtt ttcaactatg gtacattctg 180
 catgcgaagt atctagcatg ctgatcaaaa gaatcattaa ccatagggac caaaaatggt 240
 tgaatttatt tctccagtag gttatctcta aagcataaat gtttaggtac aaatttaagc 300
 aaaaaaaggg tgaatgaagg ttactgcca acatgaccaa tgaaaatcga aggatctctg 360
 aattactgtt gaagaccaag ggaaggtatg ctttcagtca atcaggtatg acaaatga 418

<210> 31645
 <211> 389
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-G8

<400> 31645

gaggagggta tggaagtggc aatggtagtc ctgggtacgg cgatgacaat ggtggtggga 60
 gtggcactgg tggcggaat ggcaatgctg gtgggtacgg aggaggaggc ggcggttatg 120
 gaggcggcta cggcagtggc agtgggtacag caccaggagg cggatatcat ggcggtggtg 180
 gtgcacaacg ctacgctggg cagaactagc aagaacaacc ccttatgcta gtttatgtta 240
 aataaacgat ccattgttca tgtgactgag caatttaagc agtgaaggat cttgactcgt 300
 gttattttgt ttaccatatg tattgggtgt tctatgttta agatgaatgt acaccgctat 360

ttgtatgtcg aactcgttgc atggagatg

389

<210> 31646
<211> 173
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-H1

<400> 31646

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aattgggttc catgctggcg ggtgctctgc tcgttgcata cgacgtttgc gtacattcct 120
acaaccgtgc actccatcgt cgtctgctac atgcacgctg ggcaacaacc tgc 173

<210> 31647
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-H10

<400> 31647

cccacgcgtc cggcggcacc gccaccgccc accacagagg agaccatcat cgctgtccgc 60
ggggcgcagc tccacctcat cgaccccgac cgcagcgtcg acctcggcgc tggcacgctc 120
tccatcgtgc gcctccgcca gggggaccac tccgtcgccg tctcgcgcgc cctgatccac 180
gagaagtccc accgccgccc cggcctcttc cgcttgttca gcagcgggcg gtctgacgct 240
ggcgccgagc aggagcccgt ccagtggccg ctggcccgcg atgtcgcggc ggtcaagctc 300
gaccccgcg cactacttctt ctgcgtccat gtccacaca cggaccaccc ggacgacaag 360
gatgacgcgg acggtgccga agcggacgcg gaggctgcgc tgagctac 408

<210> 31648
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-H11

<400> 31648

gtgggtcggc ttctcctacc cctacggttc ggggttcgggt tcgtgaggtt ctggggcggt 60

gggcttcgtg ggtgagcgga tcgagatggc ggcgtctgat gttgagtacc gctgcttcgt 120
 cggcggcctg ccctgggcca cggacgacca ctccctccac aacgccttga gcacctacgg 180
 cgaggtccta gagtccaaga tcattctcga tcgggagacg cagaggtccc gctgattctg 240
 cttcgtcacc ttctccacgg aagaggccat gcggaacgcc atcgagggca tgaacggtaa 300
 ggagctggac ggacgcaaca tcac 324

<210> 31649
 <211> 447
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-058-Q1-K1-H12

<400> 31649
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 gaagaagtca gctgctgcaa aggggtaccac tgtaactggc actgatgctg atctccgcag 120
 attgagcatg gatgcagccc gtgagttgct gctaaaattt ggcgtacctg aagagcaaatt 180
 tgataaatta acaaggtggc atcggatcgc tatggtgagg aagctttcaa gtgagcaagc 240
 tgcacgga attactatcg atgaaattcc tgtagtaag tttgcacgtg gacaaaggat 300
 gtcttttctg caacttcagc agcaaactag ggagaaatgt caggaaattt gggacagaca 360
 agttcagtca ctttcagctn tagatggtga tgacaatgcc agtgacacag aagctcacag 420
 tgatctagac tcatttgctg gggatct 447

<210> 31650
 <211> 74
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-F2

<400> 31650
 tcccactcgt ccgaaaaaaaa aaaaaaaaaat taaaaataaa aaaaaaaaaa aaaaataaaa 60
 agaaaaagta aaaa 74

<210> 31651
 <211> 432

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-058-Q1-K1-H2

 <400> 31651

 gcgcggagcc tcgctcgctt gtccccacca acgccgactc gctcccacca aaccacgag 60
 cctaagatgg cgtcggcgctc caaggaggag gtgatcgga agctcaacgt ccgcgtggtg 120
 cggggcaaca acctggtcat cgccgacccg ctcaccaca ccagcgaccc ctacgtcgctc 180
 ctccagtacg gcgctcagaa ggtgaagact agtgtccaga agaagaactc caatccagtg 240
 tggaacgaag tactgcagct ctcagtaaca catcctacga agccagtgca ctttgaagtt 300
 tttgatgaag acaagttcac agcagacgac agcatgggtg ttgctgagat caacattact 360
 gacatctacg atgctgcgaa gctggacctg aagcacgcct cttatgggac aaggatcaag 420
 acgatctacc ct 432

<210> 31652
 <211> 150
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-058-Q1-K1-H3

 <400> 31652

 aaaaaaaaaa aaataaaaaa aaaaaaaaaat aaaaattaaa gacaaaaaat ataaaaaaaa 60
 cgaacatggt taaatccaac atgtgaatca tttaactata ttataatgtc aattaaattc 120
 caataaaatg gtccaatttt tactatttta 150

<210> 31653
 <211> 393
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-058-Q1-K1-H6

 <400> 31653

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 gtttctgccg gtcttattcc cggggttgtt ctccctctt ggccacgctt tcccttctgt 120
 cttctcgag tggaatgccc ctaagccaat gcctccttct cttttgaatg aggccttgcg 180

atggacagtt acggccaaaa gaaagatcta tggtcaccct tgccatatca ggggtggaaa 240
ccatgcttaa cgccatcagt ttctcacaaa ttacctctgg aaccaagtgg tcattcaagt 300
atttcttgat ggtggattga accaacaaaag aatggggata tgtgatgcca ttgcagttgc 360
aaagattctt aatgctactc ttgtgatccc aca 393

<210> 31654
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-D3

<400> 31654

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ctcaaatgca aagtccaagg agctcagcgg ccacgacatc tttgctgata ctctggattc 120
caggtctaac agggcaagga acccatcgaa cggcagcaca gcctcacacg cacctgccaa 180
acatacaaac gccagcacct tctcgtttgg agatgccaac actgacagca cgccaaagac 240
ggtaaggaag ataaccggca agaaggtcaa cgacctcacc ggcaacgaca tcttcaaggg 300
agacgtccg ccagcttctg cagagaagca tctgagcacc gcgaagctga aggagatcac 360
tggaagcaac acttttgcag atgggaaaga accaatccgc gagcgtgtgg g 411

<210> 31655
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-D4

<400> 31655

cccacgcgtc cgggttatgt aaattatccc cctgatgtag tcaaccagaa ctacttacag 60
ggagatgctt gtaggtgttg aatgtaatgt atcattcttt aattcccccc caagaattaa 120
gttattctcc ccctgtctta tgctgaggct tgtaaagttt tgaaagttcc aagtgtatag 180
ctgtactgtt tgtgttgctg agtaaaataa aaaagtacac aatcaaatat catctaaata 240
atactcagaa aattaacctg ctatga 266

<210> 31656
 <211> 201
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-D5

<400> 31656

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 ggacaaaaca aagcggcgtg gctcgcacgc aatctgtcgt agcagtctcc gtggtgggcg 120
 tagcgtgct gctggcaccg gcggcgacaa cctcggatgc cggcctcacc tgaagactct 180
 cgagctccgg catatcgccc t 201

<210> 31657
 <211> 278
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-D7

<400> 31657

tcagcagtca ccacttccaa ggcattaccg agtctacta gcagtcgcac tcaatgttca 60
 agggactaaa cagggggcat ggctcgcacg caatctgtcg tagcgggtctt cggtgtggcc 120
 ccggtgctgc ttctggcacc ggcggcgacg accttgagg cgcacctcac ctgcgggcag 180
 gtgagctccg ccattgcgcc ctgcctcttc tacaccgcg gcacggggtc cggacccttc 240
 gcgttctgct gtagcggcgt caggaaccct ctgagcgc 278

<210> 31658
 <211> 318
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-E1

<400> 31658

cccacgcgtc cgcccacgcg tcctaggcca tcaacaattt tacatataca ctactctctg 60
 gggtaacgat atctaacggt ctacattccc tccatgctaa taggctaacc tgtcctctat 120
 ttaatctctt tcatatgttg aaattgactt gtacttacta acactcttgg ctgacttaca 180
 tatacatgag ctcagctata gatctctgcc tttattacac atcctcaact gagtactaat 240

<210> 31661
<211> 423
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-058-Q1-K1-E12

<400> 31661

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caagcactct ctatccctgg gatccatcat ctacatacat ccatgagcct ctttacttca 120
aggatatgac aatgactcct cctggccccgc gaccggtgaa ggatgcatat tgccttctga 180
actttggtga cagtatcaca actgatcaca tctcgctgc cggaacatt caccagaca 240
gcgagctgc aacatatctg aaggagcgtg gtgttgaaag gaaggacttc aatcatatg 300
gtagccgaag aggaaatgat gagatcatgg ctagggaac ctttgccaac attcgtcttg 360
tgaataagtt cttgaagggt gaggttgac ccaagacaat ccatgttcca tctgngaga 420
agc 423

<210> 31662
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-E2

<400> 31662

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ccgttcgtca aggcgttcga cgcgggcgc gccgggcca acttccctg gatgtccagg 120
gtcgccgcgg tggcgccgtt cgaccggtgc tacgactcca ccaagctccc gcagagtctg 180
ctcggtacg ccgtgccgca gatcgacgtg atgctggagg gcgggcagaa cttcacggtg 240
ctcgcgga actccatggt gcaggtgaac gccaacacgg cttgcctcgg cttcgtccag 300
gcgccccggc aagcgccggc ggccgtcatc ggtgggttcc agctggagaa ccacctgctg 360
ctgctcgacg tggacaagaa gcagctcgga ttcaccactt tcctcaacgc aatcgggctt 420
tcctgcagca gcttcaattt c 441

<210> 31663

<211> 343
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-058-Q1-K1-E3

 <400> 31663

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 caattggtta gagagggtga cgataagtca tgtctggaag cccacttccc agccaaggag 180
 agttagtgtc gatgctaagc cacatacaag gaaggccagc tatgcaatgg aaacagagtc 240
 agtgaaatta aagcgtaatg cacggaggag ctctgcagtg ccatttgaac cttctcaaac 300
 aaacactgcc attgaaattg agaagacaag acggaatcca agg 343

<210> 31664
 <211> 280
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-058-Q1-K1-E4

 <400> 31664

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 cctggtccca atttattctc actctgcatt ctatatgata cagtccttat caaccattat 180
 tatgactcaa cccaactatc ctaaacttat attcactcct acaaccctat taattacgat 240
 acaaatcaca tcttccataa catcacctat atacgcacta 280

<210> 31665
 <211> 417
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-058-Q1-K1-E6

 <400> 31665

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ccgccttccc acggacactc ttggccttgc cttttctctc cctgtttgc tacctcgttc 180
 ccgccccgc ctgtgcttcg ccgcacgtca tgccagggcc gtcgccgcca gggcttctc 240
 atcctctgca tcaccggact cttcattcgg ttccgggatg gaggagtccg tcaagaagac 300
 gggggccgac aaccccggtg tcattctactc caagtcattg tgctcatatt gcatggaagt 360
 gaaggcgctc ttcaagcgga tcggtgtgca gcccattgtt atcgagcttg accatct 417

<210> 31666
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-E7

<400> 31666

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 agaaaagcaa atcttgattg aacctatatt tgcccaatgg atacaatctg ctcatggtaa 120
 gacgacatat gggttcgata tactcttata ttcaacgaat ggccccgctt tcaatgcagg 180
 tcgaaacata tggttgcccg gatggttgaa tgctgttaat gagaatagta attcgctttt 240
 cttaacaata ggacctgggg atttcttggt tcattcatgct attgctctag gtttgcatac 300
 aactacattg attttagtaa agggtgcttt agatgcacgc ggttcctaat taatgccgga 360
 taaaaaggat ttcgggtata gttttccttg cgacggccca aggcgcggcg gtacttgtga 420
 ta 422

<210> 31667
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-E8

<400> 31667

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 cctgtatggg ttatgaatgt tgttcctggt cagaagccat tgacacttgg agttatttat 120
 gataggggcc ttataggggt ttatcatgac tgggtgtgaac cattctcaac gtatcctcgt 180
 acctatgac ttattcatgc tgatgcaatt gactccttga taagtggccc gatttcaggc 240

actagcagat gtgacctgtt tgatgtcatg ttggagatgg atcgcatact gcgcccagaa 300
 ggaactgccg ttatacgggc ctgcgcagac gtagtagcca aggcagcaca gatcgctcag 360
 tcgattcggt ggaaggcaca ggtgcatgac agtgaaccag aatcaggcag t 411

<210> 31668
 <211> 186
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-F1

<400> 31668

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 acacaccact atgattgatg gtttgggtgt tgctggctgg ggggttggcg gtgtagaacc 180
 caaggc 186

<210> 31669
 <211> 447
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-F11

<400> 31669

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 atccgatcca atttttcgta atcgattagt taacatgggtg gtttaaccgta ttatgaaaga 180
 cggaaaaaaa tcattggctt atcaaattct ctatcgagcc gtgaaaaaga ttcaacaaaa 240
 gacagaaaca aatccactat tggttttacg tcaagcaata cgtagagtaa ctcccaatat 300
 aggagtaaaa acaagacgta ataaaaaagg atcgacgcgg aaagtccga ttgaaatagg 360
 atctaaacaa ggaagagcac ttgccattcg ttggttatta gaagcatccc aaaagcgtcc 420
 gggtcgaaat atggctttca aattaag 447

<210> 31670
 <211> 312
 <212> DNA

<213> Zea mays
 <223> Clone ID: LIB3068-058-Q1-K1-D2
 <400> 31670
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 gaccggcgcc acacgggcgt catgggcctc ttctacatcc tcgtggccga ccacgcccgg 180
 cagctgccgc cgcaggaggg cctgtgcttc agctttccgg tcccatgggtg cctaccgtca 240
 tggctgtcga gcaacctgtg agatcttttg gtgttgaaag ctggtgctat gttctaatta 300
 gctgcttggt ta 312

<210> 31671
 <211> 270
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-058-Q1-K1-F12
 <400> 31671
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 accacatact catatccaat ttttcataat caactactta acatgctaata taaccatatt 180
 atgaaatact aacttttaata cattcatctt attaaatact ataccatata cataattata 240
 ttcaacataa gacacattca aatacctcta 270

<210> 31672
 <211> 446
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-058-Q1-K1-A9
 <400> 31672
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 gagcgcctgc gccacctcca tccccctcgt ctggcgcccc tctgcatgcc cgtccaagaa 120
 gaccaccgtc gccaggttcc ggcgcgcac ggcgacgtgc agggccagca gcggcggtgg 180

cggtggccgg ggcggcgaaa atgatggcct cctttggctg ccccgggcggg acgtgatgct 240
 caacggcctg tccagtgtcg ccgcccgggt cgctgggtac ccggggcgtcg cgtccggcgc 300
 ggatgcgggtg tgcaccaggg ccgacaaggt gaacgagaag accgtgcagt gcacggaccc 360
 ggccggggcag cttccgtgcc ctctggtgtc gccgacggac cccgtggact tcaagccgga 420
 aagcaagggtg acgcgcattc ggcagc 446

<210> 31673
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-B1

<400> 31673

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 ccaactccact ccgatcgact cgctgagat tctcgcaggg actagtttgt ggcggaatct 180
 caaaccagg aacctgtgaa tctcgcacac ttgcgaaaca tgagaagggt ctttttcttc 240
 ggggtcccctg ctgcaaacgc tgggtgaggg gccgggcaac cggatcaatga tagcaggact 300
 ggacatagaa agacagatga gggaaaggac atctccaccg cgagattgtc gagatccaga 360
 agccgtcgtc agaagcggaa taaggaggaa ccggctaacc ccaaacaact c 411

<210> 31674
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-B11

<400> 31674

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 agatggcggg ggcggccgaa gcggacacgc cgtcgcagga gccggtgcgc acgggccgga 180
 gcaacaccat cctgtctccc atcggcggca tctcctggc ctacctgtc taccgttcc 240
 tccgcccgcg cctccgcggc ctgcgcctcg acctgcccgc ctggctgcgc tgccgccgcg 300

cgccgaccgg cgggggcgcc gtgctgccct acttcgcgcc catcgccgac cgctcggcg 360
 ccgtcgcgct gccgtacctc ggcgcttcg ccggcccgca ggcggcgctc ctcaggttcc 420
 ccggcgggga ggcgctgtcg gtggc 445

<210> 31675
 <211> 381
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-B12

<400> 31675

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaataaataa aaaaagggtg gcccttttta 180
 aaaattcaat gtttattatc ctacaaatct catgtcatta tttttttttt agtttaccta 240
 aattaaaatt ctttggcctc tttttaaaat attccttttt gtaaaaacct ttatgtgccc 300
 aaatttatcg cctttctaaa aaatccccct ttttcaatgg tgattattac taaaaatgcc 360
 cctccgaatt aactttccaa a 381

<210> 31676
 <211> 232
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-B4

<400> 31676

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 aatttttact agaactaccg gatttcctgt acattattgc tgctgttatt attcggacca 180
 cactagccta ctaaaaagga acacttccaa taatgtaatc ttgcgcacct tt 232

<210> 31677
 <211> 151
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-B5

<400> 31677

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gaaaaaataa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaataaaaaa aaaaaaaaaa 120
aaaaaaaaa attaaaaaact ataaattttt t 151

<210> 31678

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-B7

<400> 31678

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tgtcattggt ggacctcacg gcgatgctgg cctcactggc cgcaagatca tcattgacac 180
ctacggtggc tggggagccc atggtggtgg cgctttctcc ggcaaggacc caaccaaggt 240
tgaccgcagc ggagcctatg tcgcaaggca ggctgccaaag agcatcgctc ccagcggcct 300
tgctcgccgc gccatcgctc aggtgtctta cgccatcggc gtgcccgcgc ctctctccgt 360
gttcgtcgac acgtacggca ccggcgcgat cccctgacag gagatcctta agattgtcaa 420
ggagaacttt gatt 434

<210> 31679

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-B8

<400> 31679

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ggccgtcctc cttgatacct tgccctgcga gtgctctcgg tgagctactt tgttttgatt 120
tatcaggaaa tccgtttgct tcatgttatg caggctcaga tctgattgct ggattcggca 180
tcttacgggc ttgaatagag ctaggactgg gagaaaacaa caaacccgcg ttggatcctg 240

tatcggttag tccttgccct caaggttcat gttgttttgt tttggtgggc gagcatcgca 300
 tgttctgctt ctggttccag atctggagaa atttctaagt cgtcgtcgtc gtcgtcgttc 360
 ggttcggagc ggatctgagg cgacgatggc tggaagcggc gggatctctt ggtctgcagt 420
 cctgcttcac ctc 433

<210> 31680
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-C12

<400> 31680

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 gcaaggattg cacctacctg agcactccag caatgaagat ccctgaaacc atgcaaaata 180
 tccatgcctg cgagaactgg ctgccaagac gggatgatgag cgcttggcgc atcggcgagg 240
 tacttcacgc cctggaaggg tggaccgtgc acgagtgtgg ggacgccatg gtgcatgctg 300
 agaaagcatg gtcagctgct attaggcacg gattcgttcc tttgacgaaa gcctgaaagc 360
 ctgtacgcaa ctctagacgc cattcgacga tggctggaaa actacgtttc agcaatcggc 420
 agcacatatt c 431

<210> 31681
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-C3

<400> 31681

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 atggttgtgt gggctgtgct gtgaggcggc cagagatgaa gcatgcagga ggaaggctca 180
 ccatggagta gaggaggctg tgagggtca catggcgctt tgcaacatgt tcaagttgaa 240
 ccccgccgtc cgcgtggccg acggcatgcg ccagatgctc cggaggcggc ccggtgatat 300

gtcaaagcca gaatcgggca agaagtacga atcatcagtg aactgtatt gaagagtt 358

<210> 31682
<211> 265
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-C7

<400> 31682

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tcaggtcaca cgtcaatggt cttaaataatg ctgttctaca acacattagc gtcaccaagc 180
cagaaatgct tcttgctgcc ttgactcggt tcatgtcact gtcactgtt cgcctagagg 240
atcgtgttat tgaaactgtc actga 265

<210> 31683
<211> 432
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-058-Q1-K1-C8

<400> 31683

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gccgtcgtgc cgggctccgg cgccgggaag acgcggaaag tgaagctctc cctgtgcatc 180
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gagctagctg ctactagtgc tcatcaagca cactgtacgt acgtacgtat gtactcgatc 360
gcgtggtcac tcatcgacca tcatcgntta tatgctgtca cgcacagtgc gggacggcca 420
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<210> 31684
<211> 276
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-C9

<400> 31684

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ggatcggccc ggctaggcct ggccttgag ccaaaaggag gggcgggtcc cctcttccga 180
cccacggaat atttaaaata acgtttaaag tattgtgtat ttacttgctc ccggaggctc 240
ctacttattc tacacctttc atgtctatat cacaaa 276

<210> 31685

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-D1

<400> 31685

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tggtggcatg gttacgcgca ccgtccgtat gcgtaacgga tcctgctggt ccggcgatcg 180
ggtcagggcg tgtacagctg tcgcccgtgc ccgtggacaa agcccgtggg tgctaagcac 240
acacggcaga cgaacttgcg cggactgtat ccgcgcgcct gttgcgagcc cctcggagca 300
ctgcgctgca acaggctgct agc 323

<210> 31686

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-058-Q1-K1-D10

<400> 31686

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caccttgag cgagtggctc ctctgacaca tgctgtcggc aatgtgttga aacgtgtttt 180

cgatcatcggg ttctcaatca ttgtttttgg caacaaaatt agcacacaaa ctggaattgg 240
cacgtccatt gccatagctg gtgttgctat gtactcttac attaaggcta agattgaaga 300
ggagaaaagg aaaaagagcg catgactgct gtgaataata ttatcaggac cttcctcggg 360
cacaacatcg tcgacaatca cgacctactt ctatacnct tgtttgtttc atcttgagtc 420
agtcg 425

<210> 31687
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-A8

<400> 31687

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aacatgggtga acttttaaca gagcttgatc ttatgctaac tcctccatca atatcaccat 120
ttccacacc aaacacacat taaaccatgc attcactcca ctactccaga ttaatctttc 180
acacatgctc taaaacatac ttacttgac tccgccatc ctacattatt cttttctctt 240
aatactcctc tatccatcta ttatctactt ccttcaacc ttttcataac aaccttttta 300
catcacaaaa actcaatcct attaatccaa tcattatata caataccttc actacaacta 360
ctaacttatt attacactaa taatat 386

<210> 31688
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-D11

<400> 31688

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atgctgagcc accgcggcga cagcgggtgc cagggcgctt tctacaccta cgacgccttc 180
atcgaggccg ccagcaagtt ccccggtctt ggcaccaccg gcgacgagca gacgcgcagg 240
cgggagctcg ccgccttctt cggccagacg tcccacgaaa ccaccggtgg atgggcgact 300

gctccggatg gaccgtttgc ctgggggatac tgccgggtga aggaacagaa acagacggac 360
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gggcaagcgc tgaacctgaa cct 443

<210> 31689
<211> 243
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-D12

<400> 31689

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catggagagc gtcgtgaaga acatcatcct agaagaaggt gcggagaggg caaaagtcgg 180
cctgatgggtg atgcctggtt tcctgatcgg gaccagcgtc atacagtccc gtgtgtacct 240
ttc 243

<210> 31690
<211> 390
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 31690

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aagccgaccc cgccgacgta cacccttct cccaagcctc cgacgcccac gccgaccccg 180
ccgacgtaca ctccaagccc caagcctncc acacaccga cgcccaagcc gacccaccg 240
acgtacaccc cttccccaaa gcctncgacg cccaagccga cccaccgac gtacaccct 300
tacccaaagc ctncgacacc caagccgacc ccaccgacgt aactcccac accgaagccg 360
ccggccacca agccgtccac ctacactccg 390

<210> 31691
<211> 345

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-057-Q1-K1-G7
 <400> 31691
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 tcgagcagag ccgccagctg atacctcgga tgctgactta gatgctgaca gacatgatcc 180
 gacacacagt agcttacacc cactgtcttt gcaactaagt gcgatgacca actctatgac 240
 taaacgggtg atttaacact aggtcgaatt actatcgga tgactatatc agtacggtca 300
 tactaacctg tatcacgacc tgcttaacgc aggtcacgat ccata 345

<210> 31692
 <211> 164
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-057-Q1-K1-H10
 <400> 31692
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 gaggtcgtac cccacatcgg cgagcggcgg cggcaccgcc ggag 164

<210> 31693
 <211> 440
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3068-057-Q1-K1-H11
 <400> 31693
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 tgtacgccgg cagctcgtcg cggccgtggc ggtgacggtg gcatgcttct actcctcgga 180
 ggcgacgcag ctgcaggtgg ggtactacaa cggcagctgc ccggccgccc agagcctcat 240

cgagaccatc gtccacgccg ccgtccgcaa ggacgccggc aacgggccgg gcctgatccg 300
gctcttcttc cactactgct tcgtcagggg atgcgacgcg tcggtgctgc tggacgaccc 360
gacgggcagc ccggggaaca ggacggtgga gaagacgtnc ccgccaact tccctagcct 420
gcgcgggttc agcgtgatca 440

<210> 31694
<211> 410
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-057-Q1-K1-H12
<400> 31694

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caatcaataa tcaccagcca catcaatcca ttccctttcc tctcccgtc cacttccatg 120
ggcaagggtc ggtccttctt ctcccgtcc cgcagcggca agcgcggcag cgcccggagg 180
gcaggctcgt cctcgccgca ctccctccgc gcgagcgcgc cgccgtcccc gtccccactc 240
ccactcccga ggaggtcgcc gtcgtcgtcg tcaaccacaa ccagggacga gacggagcgc 300
gtgttcgcga agttcgacgc gaacggcgac gggcagatct cgcggtccga gctggcggcg 360
ctgttcgagg gcgtgggcca cgccgtgacc gacgacgagg tgtcgcgcat 410

<210> 31695
<211> 443
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3068-057-Q1-K1-H4
<400> 31695

gtgagtgaga gagagacaga gagatcatcg atcgatcgac gaccatggcg aggcaacggc 60
aagttgcttc catgcttgca gctgctctgc tcgttgcaac gacgtttgcg tccattccta 120
caaccgtgca ctccatcggc gtctgctacg gcacgctggg caacaacctg ccgtccagca 180
gcgacgtggt gcagctctac aggtccaagg gcatcaaagg catgcgcac tactcccccg 240
acgccaaagc cctcgccgcc ctgcgcaact ccggcatcgc gctcatcctc gacaccggca 300
acggcggcgg cgctctgggc cagctcgcca ggagcgcctc gttcgcggac tcgtgggtgc 360

agagcaacgt gcgggcctac taccgccgncg tcggcatcaa gtacgtcgcg gtgggcaacg 420
aggtgcangg cgacgacacg cgc 443

<210> 31696
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-H7

<400> 31696

tcataattca tataatgagc ttgtagcaca aaagctggtg gacatgaaga acagccaggt 60
tactataacg gtcaatggcg atgaaattca tatggatcag ttagggaatg ttgatgaccg 120
taaaaaatct ggggttcagg cattgcaa atagatcttgc tcccagtggtg ccatttttga 180
gtctggtgtg ttaaggcagc ctatgcggtc aaggggactg cttgctcggc cttatattca 240
ttcaatgctt gctatagcag cagtctgcgt atgcgtctgt gtattcatgc gagctttgct 300
gcggatcaat tctggaaaat ccttcaagtg ggagaagctg gattacggtg caatataatt 360
gtggggacac acctgagcct tgtggtatta ttaagttaac aagcaagttg tatggagcta 420
ttttgg 426

<210> 31697
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-H8

<400> 31697

gtggagacca aggtcacggc ctggcagacg gccgaggtcg ccaagatcaa caaccgctgc 60
aagagggagg atgtggtcat caacggctgg gagaccgagc aggtggagaa ggcctccgcg 120
tggctcaaga agatcgagag gaagctggac gagcagcgcg ccaaggcgct ggagaagacg 180
cagaacgaca tcgccaaaggc gcggcgcaag gcggaggaga agcgggcgtc ggcgaggaggcc 240
aagcggggcc tcaagctggc caaggtgctg gagctagcca acttcatgaa ggccgtcggc 300
agggtgcca ccaagcgctc cttcttctag ccagccgact acccctgcca ccttcgtctc 360
tccttgctcg cgtgtgatcg atgtacgctc gctgctgcat ccgagaacct aactgt 416

<210> 31698
 <211> 295
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-057-Q1-K1-H9

 <400> 31698

 acgcccacgc gtccgcccac gcgttcgaaa atataaaaaa aaaaaaaaaa aaaaaaaaaa 60
 aaaagaaaaa gtataaaaaa aaaaaaaata aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaataaaaa aataacttaat ttaataaaaa aaaaatttaa tttaatagtt attttattta 180
 aacacctaaa tataataaaa tcctaaaatt tctaaaatta actgccttta aaaacattac 240
 cattacccaa tttaatcttt tattaaaaaca ttcttaatta ataaactttt ttaat 295

<210> 31699
 <211> 340
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-058-Q1-K1-A1

 <400> 31699

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 acggtgcctg gattaggagt ttagctatag acgaaagcac gtacggccgc gtgcctggtc 180
 tagctacgcg gactggttga tcttgagcag ttaagcgtgt acgaaacgac agctgtgtac 240
 gtgtgtactg tctgatggag tgtgagaagt actgtgtgta tctggtatgg atccgatcgg 300
 gctgatgtat gaacaggatg ttacggact atatatagat 340

<210> 31700
 <211> 290
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-058-Q1-K1-A10

 <400> 31700

 cccacgcgtc cgggtgcctct catagccgag taagttggat cttgaggcaa aggaaataag 60

taaagatgcg gtggcagcat catactctat gcaagctaag agtgacagct gtgtttcagt 120
cacatatatg atctagtctg tgtgtcaatg tgtcgaaaaa catgtctgtg attttgttat 180
atgaatgtaa cgcgcaatga aacatacagg actagctgct tgcttgacga tgcgtttgcg 240
tgtatccgta taaattaaag gctataagcc acatcgtata tgcgtactgc 290

<210> 31701
<211> 444
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-058-Q1-K1-A11

<400> 31701

ggtttatcta ggactggtgt acaaagaaaa cttcacttgg atcgtcagcc agggcagagg 60
agtacaaaac cgaccgagaa cagcaataag ctagctacaa atcgggtccc agcccggaac 120
agcccaggga atcctgtact taggcattca cgcagcttgc ctgaaactgg tgcacgagca 180
gtacagaagg tctcatcaat cacagagaaa ctgtcgcaaa tgtcggtgac ctccagaaca 240
cgaagcgccg tgaagcctgc cgtcccgcgc atgaaggccg gacatggcaa gtcagacttc 300
ctggggaagt ctgacgatat ccctccggca aagaggctga cgagaaaatt ggtcagctaa 360
acaagggtac gtagagtga aatccgatca tctgcaggag ggtggaggga tatggtgtat 420
agtgtgcang aaccagtgtg ccga 444

<210> 31702
<211> 283
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-A12

<400> 31702

aaaaaaaaa aaaaaaaaaa aaaaaaaaaat aaaaaaaaaa aaaaaaaaaa aaagaaaaaa 60
agaaaaaaa aaaaagaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg 120
aaacatcata tataaatcta tacttttagtt actctacatt gaaacctaatt atttattctt 180
tggtgttact taaatcactt tatgtgtcct aaattcttaa acatatgtat tggaaaacct 240

ttgctttatc ccaagttaat cctattgtac ataataccta ttt

283

<210> 31703
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-G3

<400> 31703

tgtaattgta atcatcagat gtcttcttcc ttctcagtat atatgcgaaa atgatggaga 60
agttaagcaa agtatcttta tggcgtcttg cagttcgcag tgagctgtac tgtaggtgct 120
tttgcttaag cgacaaccag tttgcagatt ggtcacctct tcctcctgtc cctgatgaca 180
ttgaggctga tgtttatggt cctgaagccg atatcctgtc agtcttagat gtgcctcctg 240
ggaaaatggg acgagttatt ggcagaaagg ggtcaacgat aatggctgtg aaagaatggt 300
gcaaggttga aatacatatt ggtggtgcta aggggcctcc agacagggtg ttcattcattg 360
gaccagagaa ggaagtcagg aaagctgagg ccatctttcg aggcccgatg ctgg 414

<210> 31704
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-A3

<400> 31704

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tctagagaac tctggccaag cttgcgctca cgcaacggac ggcatgacaa gggagcttac 120
tcattttggt catagtaatg ctaatatctt cgagagtaat gaggtccctg cttctgagat 180
tactgggggtg gaataataat aaggtgcctc tggttttcct caaccaacgg aggatgaaaa 240
tgcggtgggg tataatcaag atgtctctgg ttttcctcga ccaacggagg atgaaaatgc 300
ggtagattat aatcaagatg cctctgggtt ttctcgacca acgggagatg ttcaaagtgc 360
ctctgggttt cctcgaccaa cggaagatga aaatgtggga gattataatc aagatgc 417

<210> 31705
<211> 211
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-A4

<400> 31705

gcgtccacac gtccgactgt acaaaaaaaaa aattaagata aaaattaaaa aaaaaaaata 60

aaaggataat tttaaaatta agaggattgt aaataaacia aattaaaaaa taaaatattt 120

ttaaaaatca ttttattaat attaatgctt aaatttttta aaattatttt tatttattat 180

tttaatttaa atttaattta aatattttta a 211

<210> 31706

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-A5

<400> 31706

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ggatggagga ttagagcttc attgcaagct tgctcctcct gcagggcagg catgtcgcac 120

agcaaattggg catgaaaagt tgaaggcgct ccagtcctcc agcttgtgta gtacacagta 180

gcaataaaac gttagtgttt gtctgtgcc catcctgtat tattctgttc cagggtttca 240

cctttatcgt cagtgtgtgg tcagggtttca acccttctca gaacaacccc ctcccagaaa 300

aaaaacaaag gaagaagttt gtgtccaggt ttcagaatcc cctgtctgta attaccattg 360

tgcatgacaa taatgagata ctgtagatat taataatgtt ccagaccttc aaggcc 416

<210> 31707

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-E3

<400> 31707

cccacgcgtc cgcccacgcg tccgctgagt cggagattga aagggaatcg gagtatttga 60

ggaaggtaaa gcttacctc cactctaacg gtatcattta cccttcgtcg ctactccgct 120

ctctctccaa ttggcataat ccttcactct catttacttg taccaattga aaaaagtaa 180

aaacgggctc aaagtctccg atttcggcaa ttaatgccaa aggagaagat attaagccca 240
aagcaciaaag gaccgcacca ccattttcaaa aaattttcaaa ataaagattt aatcgatgat 300
tttcacattg gtatccacac aatggacatc tcttcaattg gtatctttta aggtagattt 360
tcaaaattgg aatccaattc tctagaaggt catcttttaa at 402

<210> 31708
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-E4

<400> 31708

cccacgcgtc cgcccacgcg tccgcccacg cgtccggaat aagataacac gaaatgggcg 60
tggagcgggtg gcgagagtag cgtgtaccct ccgtggcaag aggctggacg gtggtgtatc 120
tgtgctctcg gtttgcgta acttgatctg gtcttaagaa ccccggtggc gggttgacat 180
atgcaagggt taagtgtac atatgtcgtg tgattggaga tcttcagttg agtataatcg 240
attcggatcg ccgtaccttc gcggttatga agaattggtc acttccttgc aacctaaagt 300
caggatgtga acactatgga taaaaatgat gttgtattga tgaaatgttg aaattagact 360
agatgcaa at agaggctatt aatactta at a 391

<210> 31709
<211> 282
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-E6

<400> 31709

cgcgcgctga cgagggtccc gagcccatgt accgcccga gccaccgag gtgcacaggt 60
gaagccgagc cacacatcga tctacaaaga tgcattggac acgactctta tcttagctaa 120
ttaataagca ctacatccat gcatgtccac aatagggccc tagccctact atactatacg 180
tcgtcagcag aaagtctggt ttgtatttca ataataagat gcacctatat gtgtgtgtta 240
catgtacgcc gttgtcttaa ttactgtgtg gtgattggac tc 282

<210> 31710

<211> 292
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-057-Q1-K1-E8

 <400> 31710

 caattcccaa ttccaggcac gacgccacgc gtcccataaa aaaaactaaa actaataaaa 60
 agttaaaaac aacaaaacaa aaaaaaacag aaacagcata ataaaaaaaa ctcattattaa 120
 aaaaaaaaca taaacttacc atcaagagat ctacaatgag tctcatcatc actgactact 180
 gcatgccctt acattacacg ataccatctt ctcaaacgca tgtaagggtc ctcatatctc 240
 aaagacattc cgatggtgat catttcatct tataacctgc ctttcccgat ca 292

<210> 31711
 <211> 449
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-057-Q1-K1-E9

 <400> 31711

 agcgcacgca gcttctagaa tctagaaggc aggagttggt cttcttggac aatgaaatag 60
 ggttcaatga ggccatcatt gaggagaggg atcagggat acaagagatt caacaccaaa 120
 tcaactgaagt aaatgaaatc ttcaaagatc ttgctgtgct agtccatgat caaggagcaa 180
 tgatagatga cattgattcc catatagaga atgctgttgt agcgacttcg caggctaaag 240
 gtcagctttc aaaagctgcc aagactcaga agtcgaactc ttcgctgata tgcttggtat 300
 tggttatctt cggcgtgggc ctgctcatag tgataatagt acttcgagca taaaagcttg 360
 gaaggcagct gaggttccga tgatcgagct tattgcgatg aattccttat tattattttt 420
 ttgctgtgc aaccaggaat gggatcctg 449

<210> 31712
 <211> 389
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-057-Q1-K1-F1

 <400> 31712

cccacgcgtc cgacgaaatt gtggaaaatg accttttcaa gcaggattgg cgatcaagaa 60
 agaaggagca gatattccag tatattgttc tgaaatggtc attagttctt cttattggcc 120
 tgtgtactgg acttgttggc ttcttcaata accttgcagt tgaaaacatt gctggggttca 180
 agttgttgct tacaagtgat ctgatgctca agcataggta cttcacagca tttctggcat 240
 atggaggttg caatctagtc ttggcagctg ctgctgcagc gatctgcgct tacatagcac 300
 ctgctgctgc tgggtctggt atcccttgag ttaaagcata ccttaatgga gttgatgctt 360
 atgctatatt agctccaagc acactgttt 389

<210> 31713
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-F11

<400> 31713

cccacgcgtc cgggcaaggc gaagcctgct ccgaagaagg tggcgaagac atcgacctcg 60
 tctgaccggc cgctgtggtt ccccggcgcc gtggcgcccg actacctgga cggctcgctg 120
 gtcggcgact acgggttcga cccgttcggt ctcggaagc ccgtggagta cctgcagttc 180
 gagttggact cgctggacca gaacctggcc aagaatgagg ccggcgcat catcggcacc 240
 cggttcgagt cctccgaagt caagtcacc ccgttgcagc cctacagcga ggtgttcggc 300
 ctccagcggc tccgcgagtg cgagctcacc caccggcgtt gggccatgct cgccaccctc 360
 ggcgcctct ccgtcgagtg gtcacccggc gtcacctggc aggacgccgg caaggtggaa 420
 ctggtggacg g 431

<210> 31714
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-F12

<400> 31714

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 atgctgatat attgtatctg ttatcctaga tgggtggccag tatcggagca cacagctgtt 120

gcacccctgat aatacattgt ggcaataacca cgtgggtgcac gcccaatttct cctttccctg 180
catagcttta ttgacaattg atatgcttag ccgtgggggtt ctttatttat ttgttgtagc 240
cttgccctcaa atgtcgattg ggcagcttgg ctgacagatt agtttttttt tccctcccta 300
cgggcagatg cttgtttaaa gacagcaatt cttgtactcc gtagctaaga atgaatgcc 360
tataaatgtt gcagtagata agcatcaagg agtgaagat gaagatggca gttcttttgg 420
tttatgagat gagatggtgc tctaa 445

<210> 31715

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-F2

<400> 31715

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gccggcgctca tctctctct catcttcgtc gtcgtctctc cctgaccatc aggagatcga 120
cgtgagtctc atcatcactg actactgcat gcccgcatg acaggatacg atctgtctcaa 180
gcgagtgaag gggctctcat cgctcaagga cattccggtg gtgatcatgt cgtctgagaa 240
cgtgcctgcc cggatcagca ggtgcttgca ggatggcgcg gaagagttct tctgaagcc 300
cgtgaagccg gccgacatga agaagctcaa gtcacacctg ctgaagcgga agcagcccat 360
gcagaagaac aagc 374

<210> 31716

<211> 390

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-057-Q1-K1-F4

<400> 31716

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aaccgtaaaa acatcgagct cgagggaaca ttgaccaga tcaagcacgc tagcgcaatg 120
gtcacagagt tgattgtccg catcagtggg aagccgcctc cacaagccaa gaacaacca 180
ggtagggggc ctggttctca tgccgggggt cctggaagca acttcaaac caaattgtgc 240

gagaacttca acaaaggctc ctgcaccttt ggagacaggt gccacttcgc ccatggcgaa 300
 ggtgagctgc gcaaacctgc tgctgcttga caggcatgct nattgtggcc tgtggtgatt 360
 aatctgcctg tatggctgaa taacaccatg 390

<210> 31717
 <211> 371
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-F5

<400> 31717

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 gactgccctt tctcagtcgc cttctacatc tgcagtgaga cgcgtattga atctcatcga 120
 atccatgggc agctactcga ataccaacac aagcggcggg gccagcgaca aggaggacaa 180
 gaacgaggac aaggtctaag gcaaggactc gtcgaagcca tacttcaagg agaacgaatg 240
 ggtcctcgcc taccactgcc acgtcctcta cgaggccaac gttcacagga tcgaagacca 300
 tgaatacgaa tggcactact ttggccatta tctcagctgg aataagaact gggatgaatg 360
 ccttgcaaat g 371

<210> 31718
 <211> 373
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-F7

<400> 31718

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 aaaaaaaaaa aaaaaaaac tttttaaaaa aacaaaattt acttcccttt ttataaaacc 180
 caattttttt tcttagggta ccttaaatta aattttttta tccggtattt tacaattaat 240
 ttaatttgaa aaacttttac attaccaaatt ttaataaact ttagaaatt cccattttta 300
 ccactttgca aaaaatccaa ttttcccaa ctgattaatt tttaaaaaat ttccaacct 360
 taaattttta aaa 373

<210> 31719
 <211> 451
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-057-Q1-K1-F9

 <400> 31719

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 ctagtgttcg cttttgggga tttcctgcct tatggaagtg ttagccctag caaagaaagt 120
 gcagtagtta aacaaaagct ttctcaagag gaagaagaaa aatttaagaa tgcactgcaa 180
 ggctttcaag caacgctgag taagtcgcct aatgataccta ctgctcttga ggggtgcagca 240
 gtatcgttgt ccgaactagg tgagtatgag aaggcatcaa cattccttga gaagctaatt 300
 aaggtaatcc ctgataaagc agaagcatac cgtttgcttg gtgaagtaaa gtttgaactc 360
 aaggattatg aagggagttc atcatcatac agaaatgctt tatcttcatac agataatatt 420
 gattttgaag ttctacgtgg actgacaaat t 451

<210> 31720
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-057-Q1-K1-G10

 <400> 31720

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 gagagaagag caagagaagc aggaagagga gatgttact cggttcctg taaccaaagc 120
 tgataagcag atcgagaagc gcataaggag acaacttcat gggctaggag gcttaactga 180
 cggtttcgac cttgggatga acatgctgtt gggaggagac aaggaagatg atgggtggttc 240
 aagcaagtca catggcaaga gcggaaaccg aaagaagcac ctgaagagca acaagaagag 300
 gaagaggcat tagccttgga cccacactgc tgtagcactt caacataccg atacagccta 360
 gaagacggtt caagcaagcc acacggaaag ttgaagctgg agaaaatacc aagaaaccaa 420
 gtagag 426

<210> 31721
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-057-Q1-K1-G11

 <400> 31721

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 atgggtggca ggcgcagggc tgctctgctg ctggccctgg tgggtggtggc cgtgagcctg 120
 gccgtggaga tccaggccga cgcgggttac gggtacggcg gcgggtacac cccgacgccg 180
 acgccggcca ccccgacccc gaagcccgag aagcccccca ccaagggggc gaagccggac 240
 aagccgtcca aggagcaca ggcgtccaag gagcacgggc ccaagccgga gaagcctgcc 300
 aaggagcaca agccgacgcc tgccacgtac accccgagcc ccaaaccac gccgtcgacg 360
 tacactcca cccgacgcc cccaagccg acgccacca catacactcc cggccctacg 420
 cccacaaaac ccacacctaa ac 442

<210> 31722
 <211> 408
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-057-Q1-K1-E12

 <400> 31722

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 ttgaacaacg gctgcatggc ggcgcctgcg ccacctccat gccctcgtc tcggcgccct 120
 ctgcatgcc gtccaagaag accaccgtcg ccagggtccg gcgcgcacg gcgacgtgca 180
 gggccagcag cggcgggtggc ggtggccgcg gcggcgaaaa tgatggcctc ctttggctgc 240
 cccggcgga cgtgatgctc aacggcctgt ccagtgtcgc cgcggggtc gcctggtacc 300
 cgagcgtcgc gtccggcgcg gatgctgtgt gcaccattgc cgtacaggtg tacgagaaga 360
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<210> 31723
 <211> 387
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-057-Q1-K1-B4

<400> 31723

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tctcctccat attagtgagc aggatgtata atcctcccag tgggcaggac atgtectact 120
acgatcatgt gcagaagcgc catgaggaga agggctgcct atatgcatgc ctgttactg 180
cgtgctgctg cttctgctgc ttcgagacct gtgagtgtg cctcgaggcc atctgctgct 240
gctgctagtt ctgcttggag ggcatgggcg tccatcatcg tggagatgtg gccatgctgg 300
acaccaccg ncgaataaaa tgctgtactt atatgcacgc acgttagaaa tgcattagtg 360
tctggttgat gtgatnctgt gtgtgtg 387

<210> 31724

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-B5

<400> 31724

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catggacgcg agcgcggcca ccgccaggcg caagcgcaag cgccccgacg ccgacaacac 120
cggcgacgcc accgccgccg ccgccgcgc cccggccgcc gtcgacgagg cctacgacgc 180
cgaggtcgag gagttctacg ccacctctgc gcgcacccgc gacgcctccc gccggctgtg 240
cggcgccggc gcccgggccg ccccgcgggc gccggcggtg cgggccagct tctcctggga 300
ggacttcgcg accccggccc ctggcgcgcc ggcgcctgag acctcgacgc ccggcgccgt 360
gcatgagccg gcgcagccgc ggtccgacga gcctgtagcc gtcgtccgcg c 411

<210> 31725

<211> 151

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-B8

<400> 31725

gactatgccc ttcatccca taatacatga ttacttaatg gatcgacta ctttcgccc 60
aatgactcac catacaaata catgccctat ccacttcga tagtacaata cgccctacc 120
ctggaggaca ctgtaacgc ctaattataa t 151

<210> 31726
<211> 441
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-057-Q1-K1-B9

<400> 31726

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gagaaagctt ttattctcaa agcgttgata aaaagccgag cgaaaaccac gtgcacacgg 120
cggagtcaca gaagcctgac gaaactttta aagctcctgt gtttgatatg tcagaattag 180
aaaatctttt ctgagctgca ctgccaagtt cagattcaag gcgttcagat aagtcaggca 240
gtcgtgcatc tgggtcgaaa ccagagaaaa ttcatcttat tgatcttcgc cgggctaaca 300
attgtggaat catgcttacc aaagtcaaaa tgccactgcc tgacctaatg agtgcaattc 360
tggctctgga tgatactgnt ctggatgctg accaggtgga gaaccttatt aagttcactc 420
caactaaaga tgaaattgaa c 441

<210> 31727
<211> 132
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-C11

<400> 31727

taaaaaaaaa aaaaaaaaaa aaaaaaaagt taaagattaa aaaaaaaaaa tataaaaaaa 60
aagaaaattg taaattttta aatgctacta aatatataat tatatattct atcctattat 120
ttaatttttt tt 132

<210> 31728
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-C12

<400> 31728

gtcccagtgg gtcaaggcta tggtttgact gaaacctgtg ctggagcagc tttcactgaa 60
tgggatgaca caagtgtggg tcgtgttggt ccaccacttc cttgctgcta tgtgaagctt 120
gtttcatggg aagaaggtgg ttacaagatt tctgattatc cgatgccgag aggagaggtc 180
gtggttggcg gacacagtat aacaaaaggc tatttcagca atgaagcaaa gacgaatgaa 240
gtatacaagg ttgacgagag gggatatacgc tggttctaca ctggtgatat tggccagttc 300
catcctgacg ggtgccttga gattattgac aggaaaaaag atatagtaaa gcttcagcac 360
ggagaatatg tgtctcttgg caaggttgaa tcggctctag caacaagtag ttatgtggag 420
agcatcatgg tctacgc 437

<210> 31729

<211> 218

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-C3

<400> 31729

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ggactgattc attatataaa aggctgacgc attctctgcc ctccgaccc attatcatg 120
ataacttgac cgatcacact gacttcatac ctataactca tcattcaaatt tactgcctta 180
tcaactttca atggtataat atagccctac catattat 218

<210> 31730

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-C7

<400> 31730

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tatcaagctg attgattttg ggagtacaac ttctgagagc caagaccaca attatgtggt 120
gtcgacaaga cattatcgtg caccagaagt tctccttggc cttgggtgga actatccatg 180

cgacttgtgg agtgtggggtt gcatttttagt tgagctttgt tcgggggaag ctctctttca 240
aacacatgaa aacttggagc atttggctat gatggagaag gtcttagggc ctctcccaaa 300
gcatatgatt gtcagagctg atcggcgtgc tgaaaagtac ttcaagcgcg gagtaagggtt 360
ggacttgcca gagggagcgg cctcacgaga gagcatgaag gcagtctgga aaatgcctcg 420
tctgcagaac ctttgtgatt gcacatgtga 450

<210> 31731
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-C8

<400> 31731

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actccaccac gcgccagctg ctggtcgccg cctgggaacc ggcggttaag cctagcaagc 120
tgagctcgca cctcacgctg ccgtcgatcg tacatgcgcg gaccggcccc gtcctcgcg 180
tccacctagg aggcgtagca ggcgcctaag gggatcgtga ccccgcatga ttgccccacc 240
acggcggacc cgatctccaa gtgatgcaca accggcctga tccccatggc gcacttgtac 300
aagttttaca ccatcacata gacctacacc accgagcacg tgctatagat gatcaccgga 360
gg 362

<210> 31732
<211> 276
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-C9

<400> 31732

acgcccacgc gtccgaaaaa aaaaaaaaga aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaagaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaataaaaaa aaaaaaaaaa aaaaaataa 180
tttaaaaaat aaaaatattt taatttaaaa aatttaaaaa ataaatattt ttttttaatt 240
taaaaaaatt taaaaattag tgggttattt taaaaa 276

<210> 31733
 <211> 293
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-057-Q1-K1-D1

 <400> 31733

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 aggacaacct gatcagggttc agcattggag tggaagattt tgaggacctt aagaatgatc 120
 ttggtcaagc cctcgagaag atataagctc caatccattt gcattaataa agttatgaag 180
 tgatggttgt ctggatcttg tagagatttg tgatgataca tgagctgttg actgcgaata 240
 agttctcttg tgcttatttt attctttgaa ttcaataagc tgtggggtgc tgt 293

<210> 31734
 <211> 392
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-057-Q1-K1-D12

 <400> 31734

 atgcgaaaaa aaaaaaaaaa ataaaaaaaa agattaaaaa attaaaaata acataaaaaa 60
 aaaaaggaaa aagtgataaa ttaaaaagtt ataataaaaa ataaaaataa ataataaata 120
 ataataaaat tattaaatca tttatattta tttttttctt attaattatt ataaataactt 180
 atcttatttt taaaaaatat tttttataat tttttcatat tattctttta tattactaat 240
 ttttttataa tatactttta ttttattcta taatatacctt atactttttt ttttttaatt 300
 ttactaatth tttttttatt tatttaattt tttatttttt aataatttat ctcatattcc 360
 ttctttttta ttataattat tttttttttt tt 392

<210> 31735
 <211> 399
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-057-Q1-K1-D3

<400> 31735

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gagctgaaga ggaggaggag gaggaggaga agcagcagcg cagccggagg agggagagcg 120

aagatgcgcc gcgtcgcgtc gttgctcgtc gccgccgtgt gcgcgctggc ggcgccggct 180

gccgcggtcg tcaactgacgg tcttctcccg aacggcaact tcgaggatgg cccgcccaag 240

tcggcgctgg tgaacggcac ggtggtgtcg ggcgccacg ccatcccgcg gtgggagacg 300

tccggcttcg tggagtacat cgagtcggng cacaagcagg gggacatgct gctggtggtg 360

ccgcaaggcg cgcacgcggt gcggctgggc aacgaggcg 399

<210> 31736

<211> 240

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-D6

<400> 31736

aaaaaaaa taaaaaaaa aaacgaata acaaaaacaa aaaaaaaaaac ttaatgatcc 60

gacaaaacac aaaaggaaag acacataaat caaaaaataa ggcctactct tttaatagct 120

ccactcttct tcccccttac ttcacatata ctagattttc tatcacctcc cttaaactta 180

ttcaactgct cgagctttta caacttccaa attttgaact ccttgcccat tcctacctta 240

<210> 31737

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-B3

<400> 31737

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accgtggcgc tcgccgcgga ggctccggct ccggccccca ccagcggtc ctccgccgtc 120

gcgcccgcgc tcggcgccgc cctcggcgcc gccgtcgct ccttcttcgc ctactacatt 180

cagtgcgccg gccgggcgcc cggaggccga cgaagagacg aatgggagag agtgagacat 240

ggctgcgcgc ataccgatgc gtgggcatgt tttcgattcg acacaccttt tgctctcttt 300

aatctttgtt cctctgtctc cttaacttaa cgaattgatg catgccgctg atgttcttcc 360
cctgagagag ggattaacac ttgtatcatt tcatccgttg gcatttgttt gaatccattc 420
aaca 425

<210> 31738
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-D7

<400> 31738

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agtgttaaac atcgctattt ggtcaatctc cgtgggttatt gcaactcccc ttcataaaaa 120
cttttgatat atgattatct tcaaggtgga agtctggatg aagtgttca tgaaaaatct 180
gaacagttgg attgggatgc acgtattaac attatacttg gagctgcaa aggcttgtct 240
tacttgcatc atgactgttc gcctcgaata atacatcgtg atattaagtc gagcaacatc 300
ttgcttgatg gcagtttcga ggcccggtga tcagactttg gacttgcaa gcttttagag 360
gatgaagaat cacatattac tacaatagtt gcaggaacat ttggctacct tgcaccagag 420
tatatgcaat ttggca 436

<210> 31739
<211> 51
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-D8

<400> 31739

tcccggtcga ggccgcgtac gccacgcgt tcggttctag atcgcgagct t 51

<210> 31740
<211> 304
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-E1

<400> 31740

catcaccagc tgccattgcc atctactgac ctgtgacctc cgcattccca aacagcccga 60
gcgagcgagc tagcagagcg gcggcaggca cctccctcct caaggaacat ggcccgcacg 120
cagcagttgg cagtagtggc gaccgccgtg gtggccttgg tgctgctggc ggcggcgacc 180
tcggaggcgg ccatcagctg cgggcagggtg gcgtcggcca tcgcgcctg catctcctac 240
gcgcgcggcc agggctcggg gccctccgcc ggctgctgca gcggcgtcag gagcctcaac 300
aacg 304

<210> 31741
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-E11

<400> 31741
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gcgcctgcgc cacctccatc cccctcgtct cggcgccctc tgcattgccg tccaagaaga 120
ccaccgtcgc caggttccgg cggcgacagg cgacgtgcag ggccagcagc ggcggtggcg 180
gtggccgggg cggcgaaaat gatggcctcc tttggctgcc cggcggggac gtgatgctca 240
acggcctgtc cagtgtcgcc gccgggctcg cctggtaacc gggcgtcgcg tccggcgcg 300
atgcggtgtg caccagggcc gacaagggtga acgagaagac cgtgcagtgc acggacccgg 360
ccgggcagct tccgtgccct ctggtgtcgc cgac 394

<210> 31742
<211> 281
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-056-Q1-K1-F3

<400> 31742
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gatcttctta aattattcta tcttccacag ctgctgcaac acctgatatg tttgtttgtg 120
ttgttattaa ttattaagga tagctagctc acctttatta tttttaataa taattcttat 180
ctgtacttaa ctatatcaat catacttatt tatacactta tattttattg ttttaccgta 240

acttgaatgc ttataaaatg taatttcatt gtcttctttt t

281

<210> 31743
<211> 245
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-056-Q1-K1-F8

<400> 31743

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ggcccatcct ggcttcngcc ganttatctt atctatctat agtatcngt taccggtcgc 120
ttctgtcacc gtgttagtgt ccgttctacc tttggattag gtgttggtac ccctgttggt 180
ccctttgggtt gctcccgtta tgaaacgaga cgagagaaga atgagcaagg tttttgttcg 240
cagct 245

<210> 31744
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-056-Q1-K1-G1

<400> 31744

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ctatccgccg ccagcccaca tacatacgaa aactaacag agagctagcc ccctcagat 120
gctgcttctc caacacacac ctccctaaag tattctatca accaaagccg ctgctacacc 180
tgatatgttt gtttgggggtg ttattaatta ggacggacta gctagctgat ctatattatc 240
gtacacaata atgctacgct gtacctatct ataacaagca cacaaat 287

<210> 31745
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-056-Q1-K1-G12

<400> 31745

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gtgacaggac tcgccgcggg gaccatctgg ggcaccgtcg tcgccacctg gtacgacgtg 120
 ccccggtgtgg agcgccacgt cgcgctccct ggccttatcc ggacgctcaa gatgtgcggc 180
 acctacgggg ccaccttcgc caccatcggg ggcctctaca tcggcgtcga gcagctcgtg 240
 cagagccagc gcaagaagcg cgacttcgtc aacggggccg tcggcgcggt cgttgccgga 300
 gcctctgtct gcggctacag aggaaagagt attcagtcag cctcatcgg aggtcctgt 360
 ctggctttca catctgctgt gctggacatt ggcggcaata 400

<210> 31746
 <211> 171
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-056-Q1-K1-G4

<400> 31746
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 gttcgcccta gctgacgtct tcggcgctc caacttcaac gacgagcgct tccaagatag 120
 cggctgcgtt ttccggagtt actaagggg ctatctcacc gccgaccact c 171

<210> 31747
 <211> 271
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-056-Q1-K1-G8

<400> 31747
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 tgagagatca agtgggtgctg ttggttttgt gttgtcaacg gctagagcaa tatcagagtt 120
 acatactttg cttatatctg gagggataga agctagtgac tttgatgcct tcatatgcaa 180
 cagtggcagn gatctttggt atccatcttc aagctctgag gacatgcttt accctgctga 240
 gctcccatc atgattgata ttgatatac t 271

<210> 31748
 <211> 413
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-056-Q1-K1-G9

<400> 31748

ggagcagcag acctgggcct tcaccttcgg tatectaggt aacataatct cgctgatggt 60

gttccttttcg ccgctgccga cgttctaccg cgtgtaccgc aagaagtcga cggagggggt 120

ccagtcgacc ccgtacgtgg tgacgctgtt cagctgcatg ctgtggatct tctacgcgct 180

gctcaagtcc ggcgccgagc tgctggtgac catcaacggc gtcgggtgcg tgatcgaggc 240

ggcgtacctg gccgcgtacc tgggtgtacgc gcccaaggcc gccagggcgc tcacggccaa 300

gatgctgctg gggctcaacg tcggcgtctt tggactcgcc gcgctcgcca ccatgggtggt 360

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<210> 31749

<211> 263

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-056-Q1-K1-H12

<400> 31749

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ggccaataaa aaaaaggggg ccgcactcaa aaacctcca ttttacttac ccatacatc 120

aaccttttcc ctcttctatt atgtctccta aactaaaatc cctgacccca aacttttaaa 180

ccctatactt ttgaaaaacc tacggatacc ccaacttaat ctctttttcc cacatacccc 240

ctttgccac aagcttaaca cct 263

<210> 31750

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-A1

<400> 31750

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ggccttcgcc ggcaaggccg tgaacgtgcc gtcgtcgtcc gccttcggcg aggcccgcg 180
gacgatgcgc aagacggcgg cgaaggccaa gccggcggcg gcgtccggga gcccgaggta 240
cggccccgac cgcgtgctgt acctggggcc actgtccggc gagccgccga gctacctgac 300
gggcgagttc ccgggcgact acggctggga caccgcgggg ctgtcggcgg acccgagac 360
gttcgccaag aaccgggagc tggag 385

<210> 31751
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-A11

<400> 31751

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caccctcacc gtggggggat ggggtactgg tttactggga gccgcattaa ggatccggaa 120
tggtcggcaa gatcaccgtc aactaattaa gctagctatc gatcgatata cattcatgta 180
ttagctgttg ctctctgctt tgtactccgc cgatctgtcc atctctacat gttttcgtct 240
tcacacaaca acctctgcta cgactacgta tatatgcatg ctactagctg attgatttta 300
acgaccaggc cgaccccgaa agctagcttg gaccaaaaaa aaaaaaata tctaattg 358

<210> 31752
<211> 416
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-057-Q1-K1-A3

<400> 31752

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ccgaggcgcg ggagatggcg ggcgagtcgc tgtgcgcctt ggtgaccgtg ccccgcaacc 120
ggaagcggtt cgtccaggag gaccgcgacg tggcgcgggt gctgcagctg ctgggccccg 180
acgaggagaa ggagaagccc gcgccggcga ggcggttcct gctgtcgacg gtggcgcacc 240
tcacggacag cagctccggc cggaggaaga tcatgtcctc ggagcacgtc aggtaataca 300
gtacgatacg aacaacacgc acacgtagcc aatcatcacg tgctcatcaa ttatcgctgc 360

agttctcagt tntttttttt ggaaaaaac aaatgcttgt ggtctcgtgg caggaa 416

<210> 31753
<211> 113
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-A4

<400> 31753

cggacgcgtg gtaaaaaaaaa aaaaagatta aaattaaaaa aaaaaaaaaa aaaataaaat 60

gtaaatgtaa aaattaataa aataataaaa aattaactct aaaatattaa aaa 113

<210> 31754
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-A5

<400> 31754

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gttctgcgca ggtaattgct tattttatcg tctgtttggc taaatagctg tgatggtggg 120

tggtatatga tgatgtactc tgcattgtat caatactgca tccaattttt ggcttgcata 180

tggttctagc atatcagtgt gctaccacac tgccccctg acaatatttg gtcttcagca 240

ttcaggcact tctgagtgcc ccaaatccag atgacacctc ctcagacaac attgcgaaac 300

actggaaatc aaatgaagct gaagcttttg agacaggtag ttgtagttgc agtaaacaca 360

gttatgaaca tagtgttggg atggtttctg cttcacgtct atattacaga tgtcctaaca 420

tggcagtc 428

<210> 31755
<211> 457
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-057-Q1-K1-A6

<400> 31755

gccatggatt gcttcttgtg ccccatgtcc tgctgcgacg acctcctcgt cctccacggc 60
 gccggcggac aggccggcac cggcagctgc tgcggctcca cggccagcga cgagtacggg 120
 tccagcgagg aggacggcgc cacgtggggc agcctgtgga acctcgacgg cgccggggag 180
 gtgtgcacgc tgtggtagag atcgattcgc taacctgccg ctgccggccg tactgcagcg 240
 gcaagccgcg cgcattgccg tctgcttgag gggagggaaac agccgaacag gtgatcgtcg 300
 tcgtcgtcgt cgtgtggtgc tgggtggataa ggacggaacg gaacaactgc taccgcgtac 360
 gttcactttg cagccgcatt actgcattcag cagctatacc gcgcgccgnc tgagccgagg 420
 acacgtgtgt cgtaaagctc cggatgaaccg aactttt 457

<210> 31756
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-056-Q1-K1-F10

<400> 31756

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 acttctcgcc caatgaaggg gatgctgact ggcccagtca caatcctcaa ctggtccttc 120
 gtccggaatg accagccgag gtttgagact tgctaccaga tcgctcttgc gatcaagaag 180
 gaagtcgagg atcttgaggc tgggtggtatt cagggtatcc aaatcgacga ggctgcactg 240
 agagaagggc tgccgctccg caaggctgag catgcattct acttggactg ggctgtccac 300
 tccttcagaa ttaccaactg cgagatccag gacaccaccc agatccacac ccacatgtgc 360
 tactccaact tcaacgacat catccactcg atcatcgaca tgga 404

<210> 31757
 <211> 430
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-057-Q1-K1-A7

<400> 31757

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 taccaacaag ctttggattt gatactgctt gcaagatata ctccgaaatg attggcaatg 120

ttatgactga tgcaagatcc acaggaaaat actaccactt tgtgaggctt atgggtcgtg 180
ctgcttctca cattacattg gaatgcgctt tgcaaacaca cccaatgct gcactcattg 240
gggaagaggt tgctgcgaag aaagaaaccc ttaagaatgt cacanactac attactgata 300
tcatctgcaa gcgtgcagat cttggttaca actatggtgt tatecttata ccanaaagcc 360
tgattgattt cattccaaaa gttcaaaaac tcatcgcgga aatgaatgaa attttagcac 420
atgatgttgt 430

<210> 31758
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-A9

<400> 31758

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gcgtccatgt cctccggggt cgacctgtcg gggctgttcg agagcgagca gaagaccgcg 120
accgtgttca cggcccgcgc gccggcggcc accgtggtgg agaagctgga gtccgtggcg 180
cgcgccctag gattcgaggt caccaggggg aaaggctgga aggtgaggat ggaggccaag 240
gccgagggca cgaacggacg gctcgcggcc accgccgagg tgctcgaggt ggccgtggac 300
gtgaccgtgg tcgagttcgt gcacgacgcc ggggacgcgc tggactttaa caagttctgc 360
gccgtcgacg tccgcccggg gctcacggag atcgtctggg cgtggcaggg cgacagcccc 420

<210> 31759
<211> 246
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-056-Q1-K1-C1

<400> 31759

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tgttctccaa tgactcatct taacacacct cccttatatt ttaacaaaca tgctcccca 120
acaaaaatc acacctaaca atgggtttcc accttatcaa tctctttaaa tacattcctc 180

atagccaaac atatttgttt tccactcttt tcaatttaca ctaaccataa aattttattc 240
taaatt 246

<210> 31760
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-056-Q1-K1-C2

<400> 31760

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gttgatttaa ctaataatcg cagaagggtt tcttacacag cgctcgaaat acaagcaaca 120
tggataacat ataattgattt caactcaaat caaataaacac ttaccataaa gtcttatgct 180
aataggaacg tgatttgaca attattccat tatatctaga gagtaaattgc ttggtaacat 240
gaaaatagaa caacttttaa atcattattt ctatgaccat ttcatttaac ttcataagtaa 300
aaattaggc 309

<210> 31761
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-056-Q1-K1-C4

<400> 31761

ggcaggattc cggcgtcgct cactgatgtt accgagctca agcacctcta cgtcgccggc 60
aaccgggtca gcgggcgcgt gctccggac ctgcggccgc tccggatgct cagccgcgcg 120
ctgctggcgc gcaaccgggt gtcgggcccc atccggcggt cgggtggcgta gctgccccgg 180
ctgcgcgacc tcgacctctc cgagaaccag ctgacgggcg cgatccccga gggctctgggt 240
gccggccccg ggaatagcgg cgtgctcacg acgctgtacc tcggccggaa ccggctgtcg 300
ggcggcgctc cggcgagcct gcttcggagc ggcgggctcg ggatgctcaa cctcagccgg 360
aacgcgctag gcggggcgcg ccccgacgcg ttcacgccga gctgctactt catgct 416

<210> 31762
<211> 235
<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3068-056-Q1-K1-C7
 <400> 31762
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 tattttacaa tgggtgcatga gttgcataaa ctgcatgtac aagaaaagac aatcattcgc 120
 aactttttatt aactaaaaat cacagaacgg ctagctccca atctctataa ataaaatcaa 180
 catggataac ataatatgag ttcaacttta aactaaaaac attaaccata aattt 235

<210> 31763
 <211> 219
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-056-Q1-K1-D1
 <400> 31763
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 tatatttatc aatgttccat gaattacata aaacttcatt taataaaaaat agacaatcat 120
 tcacaacttt tattaactaa tttatatcag aagttctttt tctaatatct ctagatataa 180
 aatcatcatg gttaaaatat tttgttttca atttaaaac 219

<210> 31764
 <211> 398
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-056-Q1-K1-D11

<400> 31764
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 cttcaattcc ttgtgcggga tatccaatca attagaattc aggttaaaga gggcttttat 120
 cctcgtcgta tcctttatat ggaaatccgg ggccaggggg tcattccctt gactcgtact 180
 gatgagaagt tttttactcc acgagaaatt gaacaaaaag ctgccgaatt ggcctatttc 240
 ttgctgttac caattgaagt attttgagta ccaattgcaa ttttttgcaa ttgtaagggg 300
 attttcgagt atttatctaa agtaaaggaa ggaacaaacg aggataagag aaaattgctt 360

cgaatttggt ttgtccaaat gagatatatg gcatacta

398

<210> 31765

<211> 420

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-056-Q1-K1-D12

<400> 31765

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gggcccggcc acggaacgcg ccgncgccgn cgnccgtcatc acatcacaga ggcctcgccg 120

tcgtctcgga tattccccgc cgtaggacca gtttccctcc agctgccgga gaccatgtcg 180

ggcggcctgg acatgtccct ggacgacctc atcaagcagt ccaagtcccg acccaaggac 240

agcccggcgt ccttgtcggg gcctgcccgc cgcgcgccac aaccccggcg cgccgtgccc 300

taccacccgg ccgctcccaa ggcccgtgcc gncgccgact cgccctacgg ggtctactcc 360

aagcacatcg ccgcgatagc gccgcccccg ctggccaaag caaggtcgct tgagacggga 420

<210> 31766

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-056-Q1-K1-D4

<400> 31766

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gctgatccag gaaatgcatt tcttgtgcca tcaccttact acccgggttg ggatagggac 120

ataaaatggc gaactggtgt tgagttgata cctgttcctt gtcgtagtac tgataacttt 180

aatgtcagtg tcaactgtct tgaaatagct taaaaacagg caaaaaagcg aggaataaga 240

gttcgtgggg ttctcatatc taacccttcg aacccaacgg gaggcattgt gccaaaagaa 300

atactgcatg accttctaca gtttctgtgca gagaagaaca tacacttaat ttctgatgaa 360

atatttgctg gttcaacata tgga 384

<210> 31767

<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-056-Q1-K1-D5

<400> 31767

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gtactggccg ctccccaagg gacacggcgt catcaagcac gggtgcaagc cgtacgcgca 120
caaccagtgc cgcaaagggg ccccgcctcg gggctgccag gacctggagt ggagtgagtg 180
agccgggtggc ggccttggtt tctctgctct gctctccctc gccggcgtgc ttcacgatcg 240
tggtgtgtgt aaggaactaa ggacgacggg gcttggttta ggagtttagc tatagacgaa 300
agcacgtacg gccgcgtgcc tgggtctagct acgcggcctg gttgatcttg agcagttaag 360
cgtgtacgaa acgacagctg tgtacgtgtg tactgtctga tggagtgtga gaagtacttg 420
gtgtatttgg tat 433

<210> 31768
<211> 117
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-056-Q1-K1-D6

<400> 31768

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tgtagcatc ataatcttga gtactacaca atactaatat agtacatact ttttggtt 117

<210> 31769
<211> 428
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-056-Q1-K1-D8

<400> 31769

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gctgaaactc ctactcatc atatggaaga gcaaagaaa cggaagctc tcatgtcatg 120
cctcgaaggg aaagcaatgt cagagtttga agaggcaatg tcacaaattg ttggattgca 180

ggagctaaaa atgcaattgc gccgatgggc acgaggaatg ttttttgatg agaagcgacg 240
 ggctatgggc ttggggattg ctaaaaggag agctcccat atggcatntc ttggcaatcc 300
 aggaactggc aaaactatgg ttgctcgaat tcttggaag ctctacaca tggttggaat 360
 tcttcctact gacaaagtaa ctgaagttca gcgaactgat cttgtggaga atttgtgggg 420
 catactgg 428

<210> 31770
 <211> 412
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-056-Q1-K1-D9

<400> 31770

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 tgggtggcgg catggagggtg cacaaaaacc ggtggatcga agagtggaac gccggccggg 120
 agaacctcga gttcaacttc cgctggaccc gccgcagcct cgccgtcgtc ggctcttcg 180
 gcctcgtgt ccccatcctc gtctacaagg gcctcgtccg cgaattccat atgcaagacg 240
 aggatgcagg tcggccatac aggaagttcc tgtaagcggc gtccagggtc gcagaatacg 300
 tcgattcctc gaccgggggt tcgaagaggg gagtttctat tcagtttgta tcggtattgt 360
 tttagtctga atctgatgaa gcaatttggg atgcttgatt attgtgcctg at 412

<210> 31771
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-056-Q1-K1-E10

<400> 31771

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 ctcatatctg cggcggagcc tcgccggcgg cctgcgcccg cggcgccgcc gatccaagat 120
 gccttcgtgc gtgcagggtc gctgctgctg ctgcctcctg cgccttctcc cccgcgacga 180
 cgcgctctcg tccccctccg cctgcgcgca ccgcctgaag ccttggctctt ggcgtagcca 240
 atccccacc tcgtcctcct aacgcttgct cccgcccgct cccaccctg atctacctgt 300

ctctaccctt ccctcctcca tttctacatc tccccgttgc tgctctgctc ctgctgccac 360
aagagtattc gccttcaatc gttgctcgcg cctgtcattt cgtgccgcac gccga 415

<210> 31772
<211> 381
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-056-Q1-K1-E11

<400> 31772

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ccaccaccct cctcgctgtc ttcctgctcg tggctgcgtc cgcagcgccg gcgcggtctt 120
gctcacctcg cgacctgcag gcgctgttga gcgtgaagca ggcgctaggg aaccggcaa 180
cgctgtcgac gtggacccca gcgtcgcccg actgctgctc gtgggaccac ctccggtgta 240
acgacgccgg acgcgtgaac aacgtgttca tcgacggcgc ggacgacgtg cgcgggcaaa 300
tcccgctcggc ggtgggcggg ctgacggagc tcatgtcgct gaccctgttc cggctggcgg 360
ngctgacggg ccccatcccg g 381

<210> 31773
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-056-Q1-K1-E12

<400> 31773

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agccagtatg tagatttgac atcagaaaac aatgctctca aaactgaaat tgaagaactg 120
aagtccagac tcatagagtt gcagagaact caagaaattg ttatggttca acatgttgaa 180
gaatgccaag tggctgaaga taagatcaga actacaaggg agaattcaga agttactaga 240
agattctacc tttgctgaaa atcacaagca agagttgctt caaaagattt tgaagctaga 300
atcagataat caggaactcc taggacaaat gcagtccatt atggaagaga aatcaaataa 360
tgctgaatct ctgcatggag agataactaa gcgtg 395

<210> 31774
<211> 419
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-056-Q1-K1-E4

<400> 31774

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gaaaaagcgg gcagattgcc acggcctttg tttatgccgc atccaccttc ctgctttctt 120
ttctgctagg aactctagtg tattctgtgc cagtttggga aaagcattat aaatgaccta 180
ttgcaacttc cagattcaac attttaccag atggcttaaa tgtgcaatgg gaaagagagc 240
atcaacttcc tgaacaaagt acaagataca gagccaagac ctcaaagggtt cacagatgca 300
aaagagagca tcaacacaaa cgtttgcaga atggaccac agaaccatct atatacctgg 360
ctgggaaaaa cagnagtaaa cttgcttagt agaatatgta gtggcgtgga ataattttt 419

<210> 31775
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-056-Q1-K1-E6

<400> 31775

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aacgcgttcg ccggtgcccc tgcccgtggt ctttatcatc ttaccaacca cgagactttg 120
cttctaaacc agaggctcca tctgtgtgcc gccttgtttt actagaaatc cttttttatt 180
ttatcctttt tcaactttcc tgcctagttt ttttccttat cctgccattg taaaaaat 240
ttctccagtg cttgtagctt gtggacttgg gttgtccaac atgtcatgaa taaaactga 300
gtttgcttc 309

<210> 31776
<211> 184
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-056-Q1-K1-B6

<400> 31776

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agttgttcat ggtgtcanac atgttgcanc gtcagtgtta agtcaggaag tgcctgagta 120
tgcacctgtt cagttattat gttttgatat ggtttctcaa tttcttagga taactctgta 180
gtct 184

<210> 31777

<211> 374

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-056-Q1-K1-F1

<400> 31777

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aggctgctgg aatccatgag acaacataca attcaatcat gaagtgtgac gtggatatca 120
ggaaggacct ctatggtaac attgtgctca gtggtgggtc gactatgttc ccgggtatcg 180
ctgatcgtat gagcaaggag atcacttccc ttgcaccaag cagcatgaag atcaaggtcg 240
ttgcaccgcc tgagaggaag tacagtgtct ggataggagg gtcgataccta gcctcgctca 300
gcactttcca acagatgtgg atatcgaagg aggagtacga cgagtctggc ccggcaattg 360
ttcaccggaa gtgc 374

<210> 31778

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-F4

<400> 31778

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ctggccgtgc tcctggcggc gaccgtggtg gtcccccgg ccgcggtgcg cgcggcgatg 180
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gccatgccgc cccagccgtg ctgcgggcggc atccgcagcc tgctgcagca ggccaacaac 300
 acccccgacc gccgcacat ctgcggtctgc ctcaagaacg tcgccaacgg cgccaacggg 360
 agcggcacct acatca 376

<210> 31779
 <211> 350
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-F6

<400> 31779

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 gcaagtgcgg caagaagtac cctgacctgg aggagacgag caccgtcgcg caggccaccg 180
 acgtcctcgg cgtggccctc gagaagaagg ccgtgcccta gttcgtccat gccgtggcag 240
 agttcggcga ggccgctcac tgctgcagct gccgtggcag ctgcaagtgc gaccctgca 300
 actgctgatc acatggatcg acgacctgg atatgattat tatctatcta 350

<210> 31780
 <211> 204
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-F7

<400> 31780

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 gcggcggagg gaggagcacg cgcggagatc gcgttcccca gcacggtgca tggagcggag 180
 gtgaacgccg tcacgcatgc ggag 204

<210> 31781
 <211> 363
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-F9

<400> 31781

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tggggttttc actaatccag atctttttcc cactgggcaa gatctctgtg atgatatatg 120

gtggattggc atctcttata ttctgtggct atatcatcta tgacacagac aatatcatca 180

agcgccacac atacgatcaa tacatatggg cagctgtttc actctacctc gacgtcatca 240

acttgttcct gtctctgctg cagctgctga gggcagccga tagctgagct cattaatgga 300

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ttg 363

<210> 31782

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-G12

<400> 31782

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accgcagcgc ccaccgcggg ggctcagaag atcgtctccc tcttcagcaa gaagcctgcc 180

cagaagccca agccctctgc ggtgtcgtcc tcttctccag acatcagcga cgagctcgcc 240

aagtggtagc gtcctgacag gaggatctac ctgccggatg ggctcttgga ccgctcggag 300

gtaccggagt acctcaccgg agaggtccct ggagactatg gctacgacc ttttggcctg 360

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gccatg 426

<210> 31783

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-G4

<400> 31783

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tcgcccagct cagcggcttc ccctgctaca aagttcgtcg tctgtccgta cgtcgcctgc 360
tgcttatatc ctagccaggc caaccttgtc atggtgctgg agctctcggg gatccggcat 420
gtcgtctact tgc 433

<210> 31784
<211> 150
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-G6

<400> 31784
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gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaatatat ataaaaaaaa aataaaaaaa 120
aataaaataa aaataaaaaa aaataaacia 150

<210> 31785
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-G7

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gtaatggcca cgagcctcag aatgtatgcc acgtgccagc agcttgctca tgctgcagct 120
gccaacagtt ttctcggcca cactgagctg cgtgtgcatg taccgccgctc cattaccctt 180
gctacgagag gccggttaca gagccttaga cttcaactgg ctcttcttga tcgtgaattt 240
gacgatttag attatgacac tctgagagca ttggatgctg acaatagccc acatgctcca 300
tctatgagtg aagaagaaat aaattctctt cctgtcttca aatataaagt tcaggcacia 360
cagaagcatc cccctgcccg aaaaagtgat gggccatctc agctatcggg ttcttcaact 420

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457

<210> 31786

<211> 52

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-H1

<400> 31786

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52

<210> 31787

<211> 223

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-H12

<400> 31787

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taccactatt acatttctaa aaccctctt tatacccaac ttactcatat tacatcacat 180

ttcctctcct tctacttact tacaacacat acaatctctc ttc 223

<210> 31788

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-H8

<400> 31788

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gtcagcattg ggccacacat ggtcgccatt attacacacg ctatgactat gagaatgtcg 180

atgctggggc tgctaaggag ctgatggcaa acctagtaag catgcagtca tcactttctg 240

atgttaacaa gttgatcaag gagatccggt ctgatgtttc tgaagtagtt gcagctgacg 300

agtttgagta caaggatcca gttgatggct ctgtgtccaa gcaccagggc atccgatacc 360

tcttcggaga tggttcacga ctggtgttcc gtctatccgg aaccgggtct ggtggtgcca 420
ccatccgtgt ctacatcgag caatacgaga a 451

<210> 31789
<211> 441
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-056-Q1-K1-A12

<400> 31789

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gacttcgtgt ccgggaagtt cctcgtatgg gaaacttagc caccgcgcgc tcagctagcg 180
cgcgcccttcg tcacaactcc tatatcttca taaatatata tatccacgta ctacctatat 240
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gctacgtaca tatatatgta ccggatcgcc tgacgacgtg aatgtaataa gcaataacat 360
tttctaccgc tttnttttta tttctttcta acgtcgagct tctatatgta gcaacaacat 420
tttctacgta catatatata t 441

<210> 31790
<211> 269
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-056-Q1-K1-A5

<400> 31790

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actctaaaag ggaaccaatc ttacctcccc tttcttacia ctaaataaat cttttatacc 120
cttacctaaa tccaattcac tttctcttca ttttaactctt atttaataat aaaacactct 180
tctaaccatc attaatctca taaaaacaaa acttactatc tccatctact ctaataaaaa 240
aatcccata accaatctgc ctatctaac 269

<210> 31791

<211> 222
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-056-Q1-K1-B1

 <400> 31791

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 ttgcccccta cataaaattc ccttctttat ttccccctaa ttccaaattt ctttcctttt 180
 tttttacaac ccttaacctc taaatccctc gctttaccca ac 222

<210> 31792
 <211> 413
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-056-Q1-K1-B11

 <400> 31792

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 acagagctac ccttcagtta ctacagcctt ccatactgtc gtcccagaga tgggggttaag 120
 aagagtgtctg aaaacttagg cgagcttctg atgggtgatc aaatagataa ttctccgtac 180
 cgtttccgtg taaatgtcaa cgaatctctg tatctgtgta ctacaacccc acttgacgag 240
 gctaattgtga agctcctcaa gcagcgtagc catgatctat accagggtgaa catgattctt 300
 gacaatcttc ctgtgaggag gttcacagag cagaatggaa taaccatcca gtggacaagc 360
 tatccagttg gttatatattcc agaaggcact tctgatgtct acatcatcaa tca 413

<210> 31793
 <211> 160
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-056-Q1-K1-B2

 <400> 31793

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 atttttatgg gcagttttgc cgtgcaggac agacgaccat ttcacgtctg catggccaac 120

ccgttctgta tatgaaaaga aacaggtgct aggttttctt

160

<210> 31794

<211> 459

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-055-Q1-K1-F2

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caggccaccg cgccatgggc aacgctctgg cgggcaggcg gcgcgcgggc aaggtgatga 180

cagtggacgg cgccacgttc cgctacaaga ccccccgggc ggctgctgcg gcgctgcgcg 240

gccacccggg ccaccagctc ctggagtcgg aggaggtgcg gcggctgggc gtgcgcgcg 300

gcccgctgga ccgcgacgcg ccgctcaagc ccgggaagct ctacttcctg gtgcagatcc 360

cccgcggcgg cngcggcgac gacgaccgcg gcgcgccgcg caagacgtgg tcgggcgcg 420

tgcgcgctgg cgcccgcgag cgctggagg gcctgatgc 459

<210> 31795

<211> 62

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-056-Q1-K1-B3

<400> 31795

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ag 62

<210> 31796

<211> 420

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-056-Q1-K1-B5

<400> 31796

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agatgggtct ctcccttggg aagctgttca gccgcctctt cgccaagaag gagatgagga 180
ttctcatggt cgggctcgat gccgccggtg agaccacat cctctacaag ctcaagctcg 240
gcgagatcgt caccaccatc cccactatcg gattcaatgt tgaaactgtt gagtataaga 300
acattagctt cactgtttgg gatgttggtg gccaggacaa gatcaggccc ctgtggaggc 360
actactttca gaacacacag ggacttattt ttgttgtaga cagcaacgac agggaacgtg 420

<210> 31797

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-D12

<400> 31797

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cgggtcgctc ctcccgagct tcctctacgg ctctcggcg cgctctttcg ctgccacagg 120
agccgccgcy cgctccctg tctctcccc gccgcctgcc gcggctggag caggaggcgg 180
cgtgccgttc tcgatccagg cgcccaagga gaagatcgag atgtactcgc cggccttcta 240
tgccgcctgc actgccggag gaatcgccag ctgcgggctc acccatatgg ccgtcacgcc 300
tctcgacctc gtcaagtgca atatgcagat tgaccagcg aaatacaaga gtatctcatc 360
tgg 363

<210> 31798

<211> 465

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-D5

<400> 31798

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ggaagggcta cttctgtctc atccagaaat tctggatgct gttgttatcc cgttccccga 120

tgctgaagct ggtgaagttc ctattgctta cgtcgtgaagg tcctctgaga gttcttttgac 180
tgaagttgat gtccagaaat ttattgaaaa gcaggtcgca tactacaaaa aattgaggag 240
ggtgaccttt gtggacagcg taccaaaatc tgcttcaggg aagatcttga gaagagaact 300
catctctaaa gtcagatcat ccaagctata gcaagccggc ttctgtgttc agaagctaga 360
acgacttcca atttgaaaat ttgtcagatt gagcgtaaag gtttacatgt tactgagcgg 420
agcttatcaa gcaatacatt cagcttgaca caatttgggg gacat 465

<210> 31799
<211> 427
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-055-Q1-K1-D7

<400> 31799
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gggcctcgcc ctgggcctct ccctcggctg cggccaccac cagcaggagc tcaagccgca 120
acatccgtcg catccgtgtg cggcgttgtt ggagccttct ctgtcgtca gcggcccggc 180
gaccaaggat gatggcccga ccgcaccggt gaggagggtc gctgccgtga agagggagct 240
gcagacgatg gaggggaacg acgacgaggc caccggcagg gtacttgtct actcagtggc 300
gtcgtcggcg gtggttactg ccgacgacga cgaagggtgc aacagcagcc ggaagaagct 360
gangctgtcc aaggagcagt cggcgtgtgt ggaggaccac ttcaaggagc acagcacct 420
caaccct 427

<210> 31800
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-D8

<400> 31800
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tgaaaaaaaa aaataaaaaa aaaaaaaaaa ataaaaaaat aaaaaaaaaa aaaaaaata 120
aaaataaaaa aaaaaaaaaa aaaaaaaat attatggccc cctcttttta gttccccaat 180

tttatttccc tttcttttca tttttttctt ttttttttat ttctcttta ttttaatttcc 240
 tttccctttt tttaaaaact ttttctttgt aaaacccttt tttttctcaa ttttaattcct 300
 cttttaatat atctcttttt ccccatctct ttaattactt aaataccccc catctattcc 360
 cttttccaaa atttttccat ccttaattcc ttttttttcc cc 402

<210> 31801
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-D9

<400> 31801

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 gtgcccacgc gcttggcccc agccggggccc ccgccccagc cccatggtcg ctcttcacgg 120
 cctacgagct cgccccctggc cacaggcagc agggcgcccc cgcatagccc aagcagccct 180
 tgctgaccgt cccctccagc gcgtggtgct cctgccagcc ggcggggcgta gcaagccccc 240
 gtccctccga gcgtgaagat catgccgaac tagccccggc agtccccatg gcaacctatg 300
 ttctgtgttt cgtgggcata tgcagagagg aggaataaat gccacgctcg atccacctc 360
 tttccaaatc tccgtggcta aattttgtgt ggcctagtgt gtgactt 407

<210> 31802
 <211> 64
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-E1

<400> 31802

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 aaga 64

<210> 31803
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-E10

<400> 31803

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gggggctggg gagcccatgg tgggtggcgct ttctccggca aggaccaac caaggttgac 120

cgcagcggag cctatgtcgc aaggcaggct gccaaagca tcgtcgccag cggccttgct 180

cgccgcgcca tcgtccaggt gtcttacgcc atcggcgctgc ccgagcctct ctccgtgttc 240

gtcgacacgt acggcaccgg cgcgatcccc gacaaggaga tcctcaagat tgtcaaggag 300

aacttcgatt tcaggcctgg catgatcatc atcaaccttg acctcaagaa aggcggcaac 360

gggcgcta 368

<210> 31804

<211> 448

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-055-Q1-K1-E12

<400> 31804

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tagaggagct cgagcgtgga gagaagggca ttggtgatgg gacagtgagc tatggaatgg 180

atgatgctga tgacatctac atgcggtcat ggactggtag catcattggc cctcacaata 240

ctgtacatga gggtcgcac caccagctga agttgttttg tgacaaagac tatccggaga 300

agccaccatc tgtcagattc cactcaagaa tcaacatgac atgcgttaat cacgagacag 360

gaatggttga tccaaaggaa agttggtttg ctagcgaact ggcagcggga ctacacgatg 420

gagaacatnn ctaccagct caagaaag 448

<210> 31805

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-055-Q1-K1-E2

<400> 31805

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gactcccacg tcccgggtgtt ggccccctctt ccgattgggt tcgccgtgtt catggtgcac 180
ctggccacca tccccatcac cggcaccggc atcaaccgg cgaggagctt gggagccgcg 240
gtcatctaca acaaggacaa ggccctgggac gaccaatgga tcttctgggt gggccactg 300
atcggcgccg ccacgcgcgn cgcctaccac cagtacgtgc tgagagccag cgccaccaag 360
ctcgggtcct accggagcaa cgcctaataa gtccggcgcc gggagctgtg ggcgccaccg 420
atcgatccaa gtgtagata 439

<210> 31806
<211> 405
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-055-Q1-K1-E3
<400> 31806

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acacatcgag taaaatctgt ttccatggcc aaatttaccg cacaagaagt tgctgccctt 180
caagaagggg ggaatgagcg tgctagagaa gtatttttca aggaatggga tcctcaacga 240
aatggatacc ctgacagcag taacgctgac aaattgagaa atttcattaa gcatgtgtat 300
gtggaacgta gatacacagg agaaaggagt actgataggc caccaagggc aaaggatgac 360
aaggatgagt atagtgaata tagaagatct gatggaaaat ggggt 405

<210> 31807
<211> 97
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-055-Q1-K1-E4
<400> 31807

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aggtgacacc agtaactatc atgtcttaat caaaaca 97

<210> 31808
 <211> 404
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-055-Q1-K1-E5

 <400> 31808

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 ttataatgac attaagctgc cgttggacat tcttatattc cgacttatca aagcttatat 180
 tcgctcctca tctttacgga aagctgctct gagggctctg tcaaagacct taaccgtaga 240
 cgagcttttc tacctgaaat cacagttttc tctattggaa ccagacagga atggatgcat 300
 cactcttgac aatatcagaa tggccttaac gagagaagct actgatgcaa tgaaagaatc 360
 gcgagttcaa gatattcttg tttcgttgag cgcccttcaa taca 404

<210> 31809
 <211> 374
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-055-Q1-K1-E7

 <400> 31809

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 gcggcggagg gaggagcacg cgcggagatc gcgttcccca gcacggggca gggagcggag 180
 gggaacgccg ccacgcaggc ggagttcccc agagcggatg aagggttcgc ctgctagggc 240
 acggtctcct gctgcgaagt caagtgcgtc gcataggac agggagaggt cgccttcgag 300
 ggagaaggtg aatgagcgtg tcaggtcgcc agagtctcct gctaaggta gcctgttgca 360
 caaggtgaga gaga 374

<210> 31810
 <211> 476
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-E8

<400> 31810

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ggcgggggac ggcgcctcct ccgagcacgg ccgcgaaccc acaggtcctc ttacgtctta 180
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tgacaagctg tacttctggg agaatagcag ggagaaagag cggcgcaggc ttcttgtcga 360
agaagctgaa gataagcagc gtggtggtgt atggattgat gagagaaggg gatttcttga 420
caaattgggt gcgcggagaa gaagaggaag catagaacct ggagttggta agtggg 476

<210> 31811

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-E9

<400> 31811

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caacgacggt gaaaactaca tcgggtgcta gctccgacgg tggcgctgc cctgttgacg 180
atagggcacg cggggcgcgg gcagcttgta agcggtcgat cggccatgta gggcaactat 240
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gtatgtatgt gtatgcccag ggcgcgcgcg cgcggctctg ggcgagtcac agtagagatg 360
caatatcatg tatccagtat ctttcttaca acacaaacag tgaagaaata ataagtaaag 420
tgtgcattgt ggggtgc 436

<210> 31812

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-F10

<400> 31812

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tacttaagt tactaaatt gaatcgactg tccacaactt ttacaactgg gaaaactcgt  180
aaaaccactg aacttacatc aactttaaac gacatgcagc attatcccag tttgcgcaga  240
tagcgaagat agccaaaagg gatcgcacct tatcaacatt tgcaac                    286

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<210> 31813
 <211> 457
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-D11

<400> 31813

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gggccgaggc aatgaggacc gagtaacact catcaaggat tatcgtggca agattgagac  180
tgagctgacc aagatctgtg atggcatcct caagctgctt gagaccatc ttgtgccgtc  240
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cctcgctgag ttcaagactg gagctgagag aaaggacgct gctgagaaca cgatgggtggc  360
atacaaagct tgccaggaca ttgctctggc tgagcttgct ccaactcacc ctattaggct  420
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<210> 31814
 <211> 469
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-A12

<400> 31814

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gtgaagtgca aggaagctga ggcgaaactg ttccagaaac tggccgatga tgccaggaag  180

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gaggtacaca gctaccggca gatcgtccgc accaagaccc agaaactaga cgaggagtag 240
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gaagagctta aaacccttga gaacctccac tacgactacc acaagatgaa actgcggatg 360
cagaccgaaa tccaaggctt gctcgaaccg attgaaacca caaagaagat gtgggtatag 420
gctccctgta acaatttcat gttgctgctg cttaatgctt ccggtatag 469

<210> 31815
<211> 69
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-A4

<400> 31815

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agggaggat 69

<210> 31816
<211> 424
<212> DNA
<213>

<223> unsure at all n locations

<223> Clone ID: LIB3068-C

<400> 3181

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tcttggtctt gtcttattga aatataaatc tctgatacaa t 180
atcaccttta tctgcacgat caggttggcg cctatgcggt ttatatgtgg aggcatagaa 240
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tggtactgct ccactntttt tctgcttatt ttattttgcc ttcgtttcaa aaactttctt 360
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aact 424

<210> 31817

<211> 379
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-055-Q1-K1-A6

 <400> 31817

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 ttatttgctc caggaaaccc tgggtctgaca caatccaaga attccatggt cttttcaaac 180
 gcattatcca gccccatccg gcgagagcctg cagccttacc acctagaaca ggacggagac 240
 acatggtact ttgtgaacgg cgcaagccgc gacatgaacc ccacggcttc gaacgattca 300
 tccatggaca tgcactcgga cagcccagtt catgactcct actgagcagc ttccttcacg 360
 gaaccagaag aacagcatt 379

<210> 31818
 <211> 462
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-055-Q1-K1-A8

 <400> 31818

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 gggaatgacc cagatatgct ggaagtaggc aatggtggca tgagcttagc agagtatcgc 120
 tcacatttta gcatatgggc tctcatgaag gccctctat taattggctg tgatgtcaga 180
 aacatgactt ctgaaacaat ggaaatactg agcaacaaag aagtaattca agtaaaccaa 240
 gatcctcttg gagttcaagg aagaaaaatt ttaggacaag gaaaatatgg atgccgtgag 300
 gtgtgggctg gtcccttgct tgggaatcgt cttgttggtg ctctgtggaa ccgttggtca 360
 gatactgcta acgttacaat gaaactgccg gcagtaggcc ttgatgggta tgctggctat 420
 tctggtaggg atctgtggaa gcatgaaact ctatcggaat at 462

<210> 31819
 <211> 476
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-B10

<400> 31819

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cacgaacaga aactaaagca agtgttggat ttaaagctgg tgttaaggat tataaattga 120
cttactacac cccggagtac gaaaccaagg atactgatat cttggcagca ttccgagtaa 180
ctcctcagct cggggttccg cctgaagaag caggagctgc agtagctgcg gaatcttcta 240
ctggtacatg gacaactgtt tggactgatg gacttaccag tcttgatcgt taaaaagac 300
gatgctatca catcgaaccc gttcctgggg acccaaatac atataatctg tatgtagctt 360
atccattaga cctatttgaa gagggttctg gtactaacat gggtactttc atatggggta 420
acgtatttgg tttcaaagcc ttacgcgctc tacgtttgga ggatctacga attccc 476

<210> 31820

<211> 184

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-B5

<400> 31820

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ggtaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aataaaaaaa 180
taaa 184

<210> 31821

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-B6

<400> 31821

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atcgacctgg cgcgcaagtc cggcaagttc gacgaggaca gcctggcggt ccagtcgcgt 120
ctgctggcca agtccggcat cggcgacgag tcgtacatgc cgcgctgcgt gttcgagccc 180

aacgccagct gcgccaccat gaaggagggc cgcgccgagg cgtccacggc catgttcgcg 240
 gcgctggacg agctgttcga caagtgccgc gtccggccca aggacgtggg cgtgctggtg 300
 gtcaactgca gcctcttcaa cccgacgccc tccctgtccg ccatgatcgt caaccactac 360
 aagatgcgcg gcaacatcct gagctacaac ctggggggca tgggctgcag cgcgggcgtc 420
 atcgccatcg atctggcccg ggacatgc 448

<210> 31822
 <211> 328
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-B7

<400> 31822

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 actccggagg aggtggaggc ggcggcggcg gtggcgccgg cgggtggaggc ggaggcggag 180
 tggctaaatg cactgtgat tgctcacacc atgatcattc accaccaagg caaccgttct 240
 tcccgtcacc gcagcttcca ccaccacaaa tctttcttcc tgcaagacca ccgtccctc 300
 cgtctgggcc ggtcccattt tcgtcacc 328

<210> 31823
 <211> 325
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-C12

<400> 31823

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 catttttgta tcccctgttg ggaattatct caaggaaggt ttatctccta ttaatttgat 180
 cgttgaggat aaatttcacc gtgccagccc tgggtggaact ggagggtgtga aaaccattgg 240
 aaactatgcc tcggtactga aagcacaaaa gattgcatag gggaaaggat attctgatgt 300
 cctttaattg gatgctgttc atgac 325

<210> 31824
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-C2

<400> 31824

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gtgcggaaca gtcctgctg gtgcggcgat cggctcggag cgtggaccgt tgcgcccgc 120
gccggcggcc aaagcccggg ggccctagtg gccccggca gccgtcgtcg gcgaggacgg 180
catccgcgcg cctctggcgc gcccctcggg gcgctgtgcc gcaacggtct gcgagctccc 240
catccgaccc gtcttgaaac acggaccaag gagtgtgacg tgcgtgctag tcgacgggtt 300
cagaaacctg agaagcgcaa ggaagctgac gagcgggagg cccttacggg ccgcaccggt 360
ggccgaccct 370

<210> 31825
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-C3

<400> 31825

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gatggctctt gaggcgttcc cgctgctcag atacatctc tacacgcctt cgtacctgag 120
cctgcaccac cgcgagcggg gtcgcaactt ctgcctgttc atgccggcgc tggacctggc 180
gggcgggacg ctggacgagc gggcgtgggc gctgcagcgc gcggcgtacg acggggggcc 240
gggcggcggc gcgctgggga cgccggagtt cgtgttcctg gcgcacgtgg tggacatgat 300
gtcgtcgatg cacgtgccgg tcgcgctccg gtcgctcagc tccaccccg tcccaacca 360
cttcattctg gttccggtc 379

<210> 31826
<211> 134
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-C5

<400> 31826

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ggtttttttt ttttttggtt tttttttttt ttttcccatg cctgcctcta ccctttcgcc 120
caccctccg gcaa 134

<210> 31827

<211> 212

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-C6

<400> 31827

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gggcgagcgc ctgcgccacc tccatcccc tegtctcggc gccttctgca tgcccttcca 120
agaagaccac cgtcgccagg ttctgtgct ctacggcgac ttgcatggcc atcagcggcg 180
gtggctgtgg ccgttgctgc gaaaatgatg gc 212

<210> 31828

<211> 248

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-C7

<400> 31828

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gggacgcctt gttttgtgga tgcttagtgt ggtgacctgg tgggtggtgt ggtgggtgtt 120
cttggcacia gttacatgct ggggatagct ataggaggta cctgttgagg tgtgtaagac 180
agtagctagc aaccgtatgc ctaggtttcc tgtttgatg cgtgacatgc cgactttcta 240
gctgcttc 248

<210> 31829

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-C9

<400> 31829

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gttgtgtgct agccagccgg caaagatgag ctgctgatgg taatgatgat gataagaggc 120
cactgtctacc ctactacgta ccctcctctt tgtgtgctgc catccgtccc cgttagacga 180
tcgaggagag aataacgcag agctctctgc tcccggcctg tcttctgccg tcccggccgt 240
ttaatttact agtgtgttcg tcctatatgt ttagcagcag caggtgtatt gtgcgggtat 300
gtaatggtat tgcaactata ttgggtgtaa aaccataata aatgtgggca aatatgcaag 360
g 361

<210> 31830

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-A10

<400> 31830

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cagagcttat ggacttgtcg atattgtagg ggatgaaatg attgacgagc actgcgatac 120
tgatccagtg tggtttccag aaatgtttaa ggattggtag tgggtggatt tcttgtaaat 180
ttatctcaaa cctaaattcg ggttttatgc tatagaaaat agaaatactt catgatgatg 240
aatcatcagg ttaagatcga tctaaaccaa tccattttat atatacatc gacatgccaa 300
cgggttaaaca acttattaga aatgccagaa cagccattcg aaatgctaga aaatcggccg 360
cgcttaaggg atgtcctcag cgtcgaagaa catgtgctaa ggtgtatact atcaacccca 420
aaaaacccaa c 431

<210> 31831

<211> 62

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-D10

<400> 31831

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaatcaaaca aaataaaaaa aaacaaactt 60

ac 62

<210> 31832

<211> 365

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-054-Q1-K1-E2

<400> 31832

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cgattgcttt cttgcgncgc ctgcaccccc ttcttcatct tcgtacggca ttcacttccc 120

ttctggcacc cccggcgccg tctcaagacg gttcacgaat tgctacaacc tttccgattt 180

aatcgcgga cgtctgggggt tcaagatgag tccacctgct tacctctcgt tgacaccggt 240

atcaaagttt gacctgttca cgtgccgaat tgggtgccaat tacgcgtctg gtggatctgg 300

catttcaac accacgggaa acgggacact cacgctgcaa aaacaaatca cgctgttctc 360

gaaaa 365

<210> 31833

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-E3

<400> 31833

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gtaaagctga aaggaacctt cttgctgaag ttgatagtgc ttacatagtt aagctctatt 120

attctttcca agacgaagag ttcttatatc tcatcatgga ataccttcct ggcggggaca 180

tgatgacttt acttatgcgc aaggacatac taacagaaga tgaagctaga ttttatattg 240

cagaaactgt gcttgccatt gagtctattc acaagcacia ctatattcat cgggatatca 300

aaccagataa tcttctatta gatcgagtg gtcacctgaa gctttctgac 350

<210> 31834

<211> 380

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-054-Q1-K1-E4
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 agtcgtgcct ccgctcgtgt cagtcgtctc tccacgcaac catgtctagg aagaagacca 120
 gtgatcccaa tgaggagaac gtcacccttg gaccactgt ccgtgaaaga gagtatgtct 180
 ttggtgtcgc tcacatcttt gcatccttca atgacacctt cattcatatc actgatttgt 240
 ctgggagggg aactctggtt cggatcaccg gtggcatgaa tgtgaaagct gaccgtgatg 300
 agtcgtcacc ttacgtgct atgcttgctg ctcaagacgt ctcacagcgc ttcaaggagc 360
 ttggcattac tgactgcac 380

<210> 31835
 <211> 432
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-054-Q1-K1-E7
 <400> 31835
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 gatccactga ctgaccgctc atggcgaagg tccacctcta cgtcgccgcg gcctgcgccg 120
 tcgtcctcgc gtcgccacc ccggccctcg ccggtgacct cgacatgctg caggacgtct 180
 gcccggtga ctacgcctcc ccggtgaagc tgaacgggtt cgcgtgcaag gcgaactttt 240
 cggcggacga cttcttcttc gacgggctga ggaacccggg caacaccaac aaccggcgcg 300
 gtcctgtggt gacggcggcc aacgtggaga agttcccggg cgtgaacacg ctgggcgtct 360
 tcatggcgcg catcgactac gcgccgggcg gtcagaacct gtcgtacacg caccgcgcgc 420
 ccaccgagat ca 432

<210> 31836
 <211> 432
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations

<223> Clone ID: LIB3068-054-Q1-K1-F10

<400> 31836

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cctgatgctg ctgccatgta gcccatoctt cccccctcgg cttcaccggc ggcggcgcca 120
acgacggtga aaactacatc ggggtgctagc tccgacgggtg gtgctgtccc tgttgacgat 180
agggcacgcg gggcgcgggc agcttgtaag cgttcgatcg gccatgtagg gcaactatac 240
atctttggca ggtctccatc atcctccgtg ggagagaaga tggtaatgga gtgctgtgtg 300
atgtatgtgt atgccaagg cgcgcgcgcg cggctctggg cgagtcacag tagagatgca 360
atatcatgta tccagtatct ttcttacaac acaaacagtg agaaattatt agtaaagtgt 420
gcatngtggt gc 432

<210> 31837

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-F11

<400> 31837

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ggagacctcc ccgcacctgc aaatcatctc acgaaggagg attcgagggc tgatgcaacg 120
ggattcgagg gctcatgggt aggatggacg ctctgattc cctacgaaag tggtttctat 180
tggccctaaa catgattgcg caagcactat caaggtgaca ggaaaggaag cttctgcagc 240
ttggattgcc aatagagtga agcctatgtt gattaataag ccaaggcttg gtgcaagaga 300
aatgcagtat atgttgagg atcaattcac agtcactttg tcatataaca aggtctggga 360
aag 363

<210> 31838

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-F3

<400> 31838

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 gagatgaacg aagttgtaaa tgaaattagg cgccagaggt gtcataactt gaggttaaga 120
 ctatgcagaa ggggcgaacc atctggtgat tttttccgg tcatttctaa tagaggacaa 180
 ggcacctggc gtcttctcct acgaggagtt tctcgtgcat gtccacaggc agatccaaag 240
 caagatgacc tgagggccat gcgaatgcaa aggcaacatg aactgagggt caggctggca 300
 aatgcaaaag caagatgacc tgagggccca gatcctgtct gtagcatttc ggtcagtaga 360
 tggattgtag gtacaaaaac gagttcgatt tc 392

<210> 31839
 <211> 230
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-054-Q1-K1-F4
 <400> 31839

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 gctcgggcgg atctgatggc ttgtgtgac tcctgcaggt aagaaaaaga ggaaggcaag 120
 atgtctcacc gtaagttcga gcacccgagg cagggtccc tcggcttcct tcccaagaag 180
 cgctcctccc gtcaccgcgg caaggtgaag tcattccta aggatgacct 230

<210> 31840
 <211> 371
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-054-Q1-K1-F8
 <400> 31840

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 tagactcacg gagagaagtt gatgaagtga aggaattaat tgagatagtg aggaggtata 180
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 aggagttggc tgcttacttc acaaattgca agcttcagag aattcatatg aggcttgtgc 300
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caaggatgct t

371

<210> 31841
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-F9

<400> 31841

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tagactcacg gagagaagtt gatgaagtga acgaattaat tgagatagtg agggagtata 180
ttcttgggtc gaagatggaa ctcaagagaa aggaattgag ggatgatgtg acccgccaac 240
aggagtggc tgcttacttc acaaattgca agcttcagag aattcatatg aggcttgtgc 300
tttctagcgc catggctctt tgcttcaagc ataaaaacta tgctactgca tcacactttg 360
caaggatgct tcttgagaat aacctcaaa aagct 395

<210> 31842
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-G10

<400> 31842

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ggtgatccac tcccgtggg ccatgctcgg cgcgctcggc tgcgtcttcc ccgagctgct 180
ctcccgaac ggcgtcaagt tcggcgaggc cgtctggttc aaggccggct ccagatctt 240
cagcgagggc gggctggact acctcgga cccagcctg atccacgcgc agagcatcct 300
cgccatctgg gcctgccagg tcgtgctcat gggtgccgtc gagggctacc gcattgccgg 360
cgggccgctc ggcgaggtcg tcgacctggt gtacctggc ggcagcttcg accccct 417

<210> 31843
<211> 287
<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3068-054-Q1-K1-G8
 <400> 31843

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 tgccaccggg gatatttcaa tcccttattg gatggcttgc ttgtccactg gtattggaac 120
 tcggccattc gttggggaat ttatgaaaca aattggccag gccaatcgcc gtgtcttggc 180
 tactgatgaa tggctaaggg tccgtgaatg tgatggtgtc tatgcaatag gtgactgtgc 240
 tacaataaac caaaggaaag ttatggagga catttcagaa atattca 287

<210> 31844
 <211> 358
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-054-Q1-K1-H1
 <400> 31844

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 gaaggagact ctgcgcgtgg gaggctactc taccttgaaa accgagttgc tctagcaaga 120
 atactgtttc ctatggaggc aagggtagca atggacattg ctcaagtcga tggaacactg 180
 gaattcacc ttgtttctag tgtgaatctg cctgccgaga tacaacggac agttgacctg 240
 aacgatactc ctttcacaat gaaggaagaa cacctggctc ggatgagagc cctatccaag 300
 acagtggaag tcgggaagcg tttctttccg cgggtgttcga aagtacttga cagatca 358

<210> 31845
 <211> 234
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-054-Q1-K1-H4
 <400> 31845

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 aaaaaaaaaa aaaaaaaaaa aggggaaagt taaatattag ggtggccgtt taaaagatg 120
 gcgggctgct ttctcgtatc ataccattta atctccttta tgttacgtca cataaattct 180

atttgtgtggc cgaaatttta caaaatagcg accggtaaaa aactggcgga ccgg 234

<210> 31846
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-H6

<400> 31846

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cccattgcgg catggctgct acggccgccg ccgctggcgt cgagttcccc ctcattggcg 180
ttgccgtggc cacgctcatc gtgacgggtcc ttgtcgcggc cgtgatgcgc cgccgccgcc 240
gttcctggca ccaagcgctt ctggtggagg ggaaaccgc accagatgca agctgcgcgg 300
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<210> 31847
<211> 431
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-054-Q1-K1-H9

<400> 31847

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gtcctcagcc cctccggcac caagatcgtg ttccgcaccc ccgcggggct cggccgcgcc 180
ttcctgtca ccgccttcca gctcgagccc gagggggacc acaaggccga ggacgccgcc 240
gccgccgncg ncaactgatc tgctctagct tccggcggcg gcggccgtgc gtgggctgct 300
cgatccggta gtggcagtgg ctttgtgaga cagtcgagtc gattgtgggt tcccctctc 360
cgccatgtgc gtgtagtgga tgatgatgca ngaataaacg gtgtccctgg atccagaact 420
cacgggtcga t 431

<210> 31848
<211> 342

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-054-Q1-K1-E10

 <400> 31848

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 acgggggatgg ttgcatcacg accaaggagc tgggcactgt catgcgctcg ctggggcaaa 180
 atcctacaga ggctgagctc caggacatga tcaacgaggt cgatgctgat ggcaacggca 240
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 aggaagagct caaggaggcc ttccgtgtgt ttgacaagga cc 342

<210> 31849
 <211> 294
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-054-Q1-K1-B3

 <400> 31849

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 tacgcctcga acgggtacgc ggcgccgcac ggcgtgcaga tggcggcgat ggctcaccac 180
 cagcagcagc agcaggtttt catgctgcag cagcagatga tggcgccggc gccggcggtc 240
 caccaccca tgcagatgca gcagaacccc gcgaaccctt tcggcaaccc cttc 294

<210> 31850
 <211> 378
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-054-Q1-K1-B4

 <400> 31850

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 cctggagagc tgatcaaagg atatctgtag cgtgttgta tctgatctga aaggagtg 180

ttgacctcca acgttgttca actcgatttt gctagcgttt cagtaggggtt tttctagact 240
 tgcaaacggt atgctttcgt cagattctga agcgtctgca tcctttcctt tttcatctat 300
 gtactggggc tcttgtgtgt gactggaaat tcgttaccaa gttgctatgc tggaacatgg 360
 aaaagaaaaa aaagagat 378

<210> 31851
 <211> 448
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-B6

<400> 31851

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 ttatctagga tcctgcagca taactctgaa gccgtgaagg taaaagctat gcgtctgacg 180
 tgacctagaa ggctgcaccc atcaagcaac gattgatgtt atctattgta gcttaccagc 240
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 gtagcatata tatatatata tatatatcca ctaatgtcta attgaaccgt agtagaactg 360
 ccctggattt aactagaaca ttgtatatac ctggaataat tggaagctga gtatcgaacc 420
 aggagttatc cgcacggttt tgcaggtc 448

<210> 31852
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-B8

<400> 31852

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 caggctttca gtcagcattc aagcttttcc atggccgaga tggaatagtt cccctttcag 180
 aaagatcata tgtatctgat gaaaaccaca atgagagcat tgatgtcagg actgaacctg 240
 ctctgccggt taatccattg gctgctagag cagccacaat aagtctatca gcatttggac 300

catttggttt tggcttcttc aacggcaagg gcaaaatgca aaacaagaaa cccaacaatc 360
tatatcagtc ccaccagaag cccaagacac caaatcagtc 400

<210> 31853
<211> 230
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-054-Q1-K1-C1

<400> 31853

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aaaggtaaaa tttaaaaagg gggggggggg gcctcccaat taaaaaaacc caaatccccg 120
tgccgcgaa tgcaaaacta ttttttttgt ttaccgaaac caaaattaaa tgcacgggcc 180
ttacaacaac aacaccggga aaacaaaaac cctacccaaa ccaaacttaa 230

<210> 31854
<211> 274
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-054-Q1-K1-C10

<400> 31854

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cctcaacaat ttcttctttc cctctttatt acttcaatcc cattccctta tctaaaattt 120
cactttatac ttacatctt acctttcaat cttattaatt cattcattca cttcatttat 180
tttattacct ttcatTTTTT taccttaata ttactattta ttctttccat ccatttacct 240
attctTTTTT tttattttct tcaactTTTT caat 274

<210> 31855
<211> 233
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-054-Q1-K1-C3

<400> 31855
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 ggtttgtttt ttttttattt tgttttaggta atnataaatt ntattttttt tttttttttt 120
 tccccggaaa aaaccacccc cccccccccc ggggacaatt taaaaaaaaa aaaaaccccg 180
 gcccccaaaa accaaaattc caacccccca aaaaaaattt cacatttttt ttt 233

<210> 31856
 <211> 168
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-C4

<400> 31856
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 aaaaaccatt gttttacctt aaattaagag gccagaagaa aataaacctt tcttgccagc 120
 tcactctttt tcaaaaatgc cccccccaat tagaccttcc caaaaatt 168

<210> 31857
 <211> 82
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-C7

<400> 31857
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 gcgagttcta tcgggttaaag cc 82

<210> 31858
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-C8

<400> 31858
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 gcaattagga accaagtga aatagcagct gcggcagtgt tgttcataa tattatacgg 120

atgcacaacg gggatgaagg ttggttgaat agccaaacaa gtaacatata gccagaaact 180
 tttgttgatc ttcctggagg agacaattac tatagcaatg atgttgtgtc acttaatagc 240
 caagtggata atgggaactc tgtagagat atgattgcat tgaatatgtg gaatgattat 300
 agtcaacatc gttcatgata tatcaagaat gtttggaaga ggatctccta ggatgaactt 360
 gatccaagct gcaactatga aaaaaatata cccagatct actactaaca agcgcaagaa 420
 gagaaca 427

<210> 31859
 <211> 448
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-D11

<400> 31859
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 gccaacacgc tcgccgaggc ggacgagttc gaggacaaga tgaaggagct ggagagcctc 120
 tgcaacccca tcatcgccaa gatgtaccag ggcgcgggtg aagacatggg cggcgctggc 180
 ggcatggacg aggacgcccc cgctggcagc ggcggccctg gcccgaagat cgaggaggtg 240
 gactaagcgg tttgttgtca gtcttgagcg tgctgcagtt gctggctggc ccagtcgctg 300
 ccgcgagtta tcgtcgctcg tcggtgcggt gtgtccgctt aaactttatt tgtggtgggc 360
 tgggtactttt gtggtgggta ttttttttgg acctcgtgat agtcggtcgg ttccatgtta 420
 tcgcggctac tggcaaacct taagtgat 448

<210> 31860
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-D12

<400> 31860
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 tttgagcaca aagagaagac cgtgacacag actatagcga tcattaagga gcaaatccgc 120
 ctgtggattc taggaggagc aaaacactta gcaaggctgt ttaggtttt aggggaaggg 180

aggggttggt tttgaaacat ttgtgtcacc atacttaatg tctccttcac tagtgtgatg 240
 tacttgtata ttttagtcct cgctgcttca ccttcttttt aatataacag acaattctct 300
 tgccagattt ttttttaaaa aagaaggcag gaacgtgata ctgccagag gggccaggga 360
 ctcttttag ctagcctaaa tgcgtgtcac tctccttgct gtagctgatt gcagcttcca 420
 tgtgttcctg attgctaaat gct 443

<210> 31861
 <211> 122
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-D3

<400> 31861

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 ac 122

<210> 31862
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-D6

<400> 31862

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 gccggccgcc tggttgccgg tcgaatccgc cctccagccg ctgccaacgt cgatctgcta 120
 ctgacgcacc gcaagggagc atttagctgt agtgagatgg atatccttta tcagtgtaag 180
 gaggttttga agatccagaa gtttcggcgt atggtgtcat atgctggatt ctactgcttc 240
 acttcctca ttacttatgc ttacacaagc aatagcaciaa gggctgggat gtcaagggt 300
 gaccagtatt attcctccta cctgctggt actgaactac taactgacac tgcaaagctt 360
 tacaaggctg cattgggcaa ttgttttgaa gtagatgaat ggggcccaat agagttctcc 420
 atcatggcaa aaca 434

<210> 31863

<211> 456
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-054-Q1-K1-D7

 <400> 31863

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 tcctcgtcgg cgccggcggt gccggctccg tcgtcctccg caacggccgc ctcgccgaga 180
 tcctcggcga gctccaggag atactcgaca aggggaagaa ggtgaaggat ggaggagggg 240
 gagacgggga aaccgatctc aacgaggctc ttacctcgca ggtgcgtcgc cttgccatgg 300
 aggtccggca acttggtaat tcacgttcaa taactgttct caatggaggt tctgcacaat 360
 caggagtatc aggctgata gtacctgcag caactgtagg agcactgggt tacggttata 420
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<210> 31864
 <211> 355
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-054-Q1-K1-D8

 <400> 31864

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 aaaaaaaaaa gagaaaattt aaaaaaaaaa aaaccaaaaa caaaaaaaaaa taaaaactta 120
 caaaaatcgg catcctacat aaacaacaca caattataag ttccctttta ttcaacaaca 180
 tactccttta ataaatcccc cttaactcaa ttgtctgtcc tctttaaaaa aaacaaactc 240
 cctggaaata cccttccttt acccatcttt ctttctttcc aacacttttc ccttttatgc 300
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<210> 31865
 <211> 454
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-054-Q1-K1-D9

<400> 31865

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gatttccagg agagagcgct gttgatcagt tggtagagat catcaagggtt cttggtactc 120

caaccctga ggagatacgg tgcatagaat ccaactatac tgagttcagg tttcctcaga 180

taaagggtca tccatggcac aagattttcc acaagagaat gcctcctgaa gccatagacc 240

ttgcttcccg tctccttcag tattcaccac gtcttcgttg ctctgctctt gacgcatgtg 300

ctcatccctt cttcgatgag ctgcggacac cgaatgcacg cctaccaaac gggcgcccgt 360

tccctccgt ctttaacttc aagcacgaac tagcaaatgc ctctccggac ctgctcagca 420

ggcttgtgcc ggagcacatt agacggcaga tcgg 454

<210> 31866

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-B2

<400> 31866

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agcaagtgcc atttatgttc cacctgctca gcaaggcact attgatctcc agagtggaat 120

cctccatgct gaagaaaaag attacaagac tgcttacagc tacttctttg aagcatttga 180

agctttcagt gcactggaag acccgaaagc catcttttagc ctgaagtaca tgctcttgtg 240

taagataatg gtaaccaag ctgacgatgt tgcaggaata atctcgtcta aggctggcct 300

aaaatatctg ggtcctgatg ttgatgctat gaaagctgtt gctgatgcat actctaaaaa 360

atctctcaag tatt 374

<210> 31867

<211> 298

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-053-Q1-K1-H12

<400> 31867

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aaccagaaag aggcttcagg tcacgctggg gccgcagcag atgcaacggg taggccgcat 180
cggngcagcc aagcttcccc tgaaaaacat acagggtcccc aggtggtggt gaacgacaag 240
ttctgggagc agttccttac cgagaggccg ggctgtcccg aaacccgaga agcaagct 298

<210> 31868
<211> 113
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-H2

<400> 31868

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agttcgtaa ttatgtgtat gcgtggcgtg gataaagggt cgagagattc gtt 113

<210> 31869
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-H3

<400> 31869

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gcctgcttaa gcctggcggg ggtgaatacg gcaagttctt cagccttccg gcactaaatg 180
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attgtgataa cttccaagtt acagagagtg atgttgagac aatcattgat tgggagaaca 300
catctccaaa gctggctgag atacctttca agccagcgag atgcattcta atggacaaca 360
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<210> 31870
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-H4

<400> 31870

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cgccctcttc gccgcctccg cagacgcggc caccttcaac gtcacaaacc gctgcaagaa 180
cacgtgtgg ccggccgccc tccccggcgg ctgcgcgcgc ctggaccgg gcaagacgtg 240
gaccgtgcat gtgccgacgg gcacggtgca cgcgctggtg tgggcgcgca cggggtgcag 300
cttcgacggc agcatg 316

<210> 31871

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-H5

<400> 31871

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cataacgtaa ggttatcaca gtctgctatc attacctgag gtgactataa catcaccaga 180
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aattgtgtga atcaacgagt tcctataatg ctaggccgat ttactatc caagcttacc 300
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<210> 31872

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-H6

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gggcccgtaa catatgcccc tctgtctcat cttatgaaag gagatttgcc acaaggaact 240
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<210> 31873
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-H7

<400> 31873

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 gcctgcttaa gcctggcgggt ggtgaatacg gcaagttctt cagccttccg gcactaaatg 180
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 attgtgataa cttccaagtt acagagagtg atgttgagaa aatcattgat tgggagaaca 300
 catctccaaa gctggctgag atacctttca agccagcgag atgcattcta atggacaaca 360
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 gtgatcccta caagatcaat ccattgatt 449

<210> 31874
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-H8

<400> 31874

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 actgttcttc ataagctcgg aggccagttc cacctgcact cgatcatctc tgaaggtgta 180
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tacatgaccc agatcctttg cggcccttca atgtctctta ccggtggcat caatgtccca 300
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<210> 31875
 <211> 353
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-053-Q1-K1-H9

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 ggacctgagc ttcaacaaga ttacgacggc caaggcgtg gggcagctgg tggccaacta 180
 ccactccctc ctggcgctca acctcgtagg caaccgggtg caggccaaca tcggcgacga 240
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<210> 31876
 <211> 256
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-054-Q1-K1-A1

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 catcaccgcg cccatgttcc agagcatgct gagccaccgc ggcgacagcg ggtgccaggg 180
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<210> 31877
 <211> 466
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-054-Q1-K1-A10

<400> 31877

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gagtttttgt ccggtcaagc agcatcgagg accggtgcgc acgtctgggtc cgactaccaa 180
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cacggaccac gcagcaggct gatcnttcgc cggcaaagca tctggaggat ggtcgcacct 420
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<210> 31878
 <211> 367
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-A11

<400> 31878

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ctatgtcagc ccagtcaaag gtgtatcgcc gacacggtcg gtcgcaacac ctctccgaga 180
ctgtcattcg atcttctgca aggggtgaacc aagatccgat ttcgaggaga gtcaacgggt 240
ggatcttggt caaagtctca agcaccctca caaccgaat tcaaaaataa tataacccca 300
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<210> 31879
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 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-A12

<400> 31879

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cgaagcctac cccgccgacg tacacccctt cttccaagcc tccgacgccc aagccgaccc 120

cgccgacgta cactccaagc cccaagcctt ccacacaccc gacgcccaag ccgacccac 180

cgacgtacac ccctttccca aaaggctcga cgcccaagcc gacccaccg acgtacaccc 240

ctttcccaaa gccttcgaca cccaagccga cccaccgac gtacacttcc acaccgaagc 300

cggc 304

<210> 31880

<211> 162

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-A3

<400> 31880

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aaaaaaaaa aaaaaggaaa ggttttattt tatatattag gtgtcctttc aaacgcccc 120

ctccataaaa atacaataac ttttaaaaac attcacttta at 162

<210> 31881

<211> 419

<212> DNA

<213> Zea mays

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<400> 31881

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gcaagccgac cccgccgacg tacacccctt ctccaagcc tccgacgccc aagccgaccc 120

cgccgacgta cactccaagc cccaagcctt ccacacaccc gacgcccaag ccgacccac 180

cgacgtacac cccttcccca aagcctccga cgcccaagcc gacccaccg acgtacaccc 240

cttccccaaa gcctccgaca cccaagccga cccaccgac gtacactccc acaccgaagc 300

cgccggccac caaagccgcc acctacactt cgacgccgtc ggtgtttttac acccccagcc 360
 cggccgcacc atactactag aaagcgatgc ctaccatacc acactgctgt cagtctctg 419

<210> 31882
 <211> 189
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-B12

<400> 31882

aaaagtgcac aaaaattata ttgccaattc cattttaatt atattctttt ttctgaatgg 60
 gaataaaaaa aagaagaaaa ttctggtttt ttctttccaa aattcgatat aggctgaaag 120
 acaatcagat cttttttctc ttcagcgggc agttccatat agaatttggtt agaataaaac 180
 aagcggggtt 189

<210> 31883
 <211> 205
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-H10

<400> 31883

cgtgccgtaa gtttctgatt ccaagcctga gtcttcgagt ggtctacgga gcagatccga 60
 tggtgttacc gtcagagttg acttgcaatc ttagctcttg aacctggcgg ttaccgtgga 120
 tcagagttcc tgttgaattt cacaaaagcc tacttgttcc taatagattg ctgcaaccaa 180
 caatattacg accctttcgg gctttt 205

<210> 31884
 <211> 317
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-F10

<400> 31884

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 gaaaaaattg tcccaagatt ggatcgcttg ttaaagctca atattgatat tgaagtgtta 120

ttgcttaaaa aaaaacctga aaaaagcaaa aaaaaaaca ataactaaac aaaattatat 180
 aaaaatgaac acctcacaat gatgacatcc ttgaatgtac taagaccctt ataaagctca 240
 agtgtacaga atacaactct aattctacga aaatggagac catttttgga ggcccatttt 300
 gtaccatgct aaattca 317

<210> 31885
 <211> 418
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-053-Q1-K1-F11

<400> 31885

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 ggcggcgcca agctctatga ctactgctcg cccaggacct cgctgtccag gatcttggag 120
 aagtaccaga ccaactccgg gaagattctg tggggtgaga agcacaagaa cctgagtgca 180
 gagatcgaca gagtcaagaa ggagaacgac aacatgcaga ttcagctcaa gcatctgaaa 240
 ggcgaggacc tgaactccct gcagcccagg gagctgatcg ctattgaaga gggcctgcag 300
 aatgggcaga ccaacatgcg cgagaagcag atggactact ggaggatgca cagcagcaat 360
 gggaagatgc tggaggacga acataagata ctgactttta ngatgcacca acaggctg 418

<210> 31886
 <211> 293
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-F12

<400> 31886

taccactctt ccgcccactc ttccgatata ttaaaaaaaaa aaaaaagaaa aaaataaaaa 60
 agagaaaaat aaaaaaata taactactaa taaaaaaaaa aaaaaataa ataaaatata 120
 aaaaaaata ccaacaaac tctaaaaaag attctctaaa atacaaaaaa aaaaaaacct 180
 tatttcataa aatcaacaga gttaatatatt attacgacta catgcatatt catctcactc 240
 atctaaaatg ctattacctg aactccctgc aattaatgca gcttatctct att 293

<210> 31887
 <211> 394
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-053-Q1-K1-F2

 <400> 31887

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 ttgggggattt ttggtggggt aaggacactt gaatttatac cagaaaaaga agaaagagag 120
 agagagagag atgattcagc ggaaatccta caattgtgcc tacatgttcc tggatgtttt 180
 acatgctacc atgcatgtta ttgcctagct tgattcgatc tgtgcacact gactgccaga 240
 accagcatta aaagcgtttg tagtcctaga gggacttacg caagctacgc aaccgaacgg 300
 gtacgtacta acgctagcta gtcagccctt cagatggcct ttaactcggg ggcaaaaagt 360
 cgttcctgtc caacgaccat ggtaatatgg tcct 394

<210> 31888
 <211> 399
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-053-Q1-K1-F4

 <400> 31888

 aaaaaaacac gtacacaaaa agataaaaca ttaaaaaaaaa aaaaaaacta ataaaaaaaa 60
 aagggaaaaa tgccgaggcg ttctacatga cccaagctaa cttacacagc catgcgcaag 120
 ctaacgtttt ctatacagta acctaacacc aattaattgg acttcgttct aaaagctcgt 180
 gactgtgaaa accatgcgtt aacaaaaatt aaaggccttg cgcatacata aggcattcgc 240
 aaactggcta aatagcgatt agggccccac caatagctat taaaaacagt tccacagact 300
 gaatcactaa tgggaccccc catgtaccgg cgcataaatc acataatctg agatgtaaac 360
 cccagcatg ccggttaaaa ttacaactac cctaccgcc 399

<210> 31889
 <211> 448
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-053-Q1-K1-F5

<400> 31889

cgaagcttga gcagagggag ccaaaatggt gaaggacacg cggtagctgcg acgtgctggg 60

cgtggacccg tccgccaccg agtccgagat caagaaggcg tactacgtca aggcgaggct 120

gggccacccc gataagaacc cgaatgatcc gcaggccgcg gagaagttcc aggaactagg 180

agaagcatac caagttctca gtgaccctac acagcgccaa gcttatgact cacatgggaa 240

agacggcatc tcaacggagg ggattataga tcttgcaaca atttttgcaa ttctgtttgg 300

tagtgagctt tttgaggaat atattggtca actggcaatg gcatcaatgg cttcacttga 360

taattttggt gaagatgagc agattgatgc aagaaagctg caagagagaa tgcacgctgt 420

tcaaaaggat cgggaagaaa gacttgca 448

<210> 31890

<211> 452

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-053-Q1-K1-F8

<400> 31890

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gtgttcatgt gagtgttttc tctacatatt atacttgcgt cctgacaatc ctataggttc 120

ctgtttactg gcaaaccata agacggtgtc taacaattca ctcatatgat catctaatac 180

actgttttgc actgtacatt gtgcaattcg cagattgaaa tttgaatata ggtacaagga 240

tgggtaaaca ctggagatag ctagcctaaa gatgaatttt agatatatta tgtatgagat 300

agctagccta aagagggagt tttagatata ttctgtagtt gatattcgag tggatcatgca 360

gttacgatcc ctcatgttta gagataaatg ataggaagac accttgtctt tcgntcatgt 420

ttaggttgaa gtttagaaat tacgatgtat at 452

<210> 31891

<211> 163

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-G1

<400> 31891
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caatatcatc caataacatc atagtatcta cctcatattg tacaagaatc cgacatcgca 120
gaaattacaa aatgaaacac tctgaagaat taatacaatc ata 163

<210> 31892
<211> 158
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-G10

<400> 31892
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ggggtacccc tgttgctccc tttggttgct cccgctatga aacgagacga gagaagaatg 120
agcaagggtt ttgttcgcaa aaaaaaagac aagacgat 158

<210> 31893
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-G11

<400> 31893
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ggccaggttc ctgatcttga acggggccag cgtggacaag gcgagcctcg acgacgacga 120
cggctcaggt tcaggctccg gctctggcgc cgcgcggtta gcaatgtcgc ccaccgagct 180
gcgcgagctg ctgcagaagc gggagctcgg cactcgata acgatccacg actcgccagc 240
ggtggtcccg aacggcgggt cgtcggggca cagccgtcca ggcagattac agagcacaag 300
ttcggacagc cagcgctggc ctcgggtgag cgtatacaag ggccaccctt tcctcagaaa 360
ccgcacctct gaagctggca agctgatcaa cctaccaggc accatggaag aattcaaagt 420
catcgtcggg gagaaactga 440

<210> 31894
<211> 417
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-G12

<400> 31894

cggactcgtg cgctgtgcc a cctcactgct tttctcgatg gccgagggcc acactaacgg 60

tggcagcttc ctgatcttga acggggccat cgtgggtcaaa gccagcctca acgacgacta 120

cggatcatgt tcatgctcca gctctggctc cagcgggcta gcaatgtcac ccaccgagct 180

gcgcgagctg ctgcagaagc gggagctcgg cactcagata acgatccact actcgccagc 240

tgtggtcccg aacggcggtc cgtcgggtgca cagccgtcca ggcagattac agagcacaag 300

ttcggacagt cagcgtgtc cttgggtgag cgtatacaag ggccaccctt tcctcagaaa 360

ccgcacctct gaagctggca agctgatcaa cctaccaggc accatggaag aattcaa 417

<210> 31895

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-G2

<400> 31895

cccacgcgtc caccctttcg tccgcccact cctcctgcaa gtgatacgtc atttctcctc 60

gttacatgtc actgctttct ctacatatta tacttccgtc ctgacaatcc tacacatacc 120

tgatcactgg caaaccatat cacagagtct aacaattcac tcatatgatc atctaataca 180

ctgtattaca ctgtacattg tgcaattctc agattgaaaa ctcaatatat gaacaacgat 240

aggtaaacac tgactatagc tagcacaaaag atgaacatta tatata 286

<210> 31896

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-G3

<400> 31896

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ggagctcaag atccggcaaa aggttaacca cagcaacctg gtgaagctgg aggggttctg 120

31897 31898 31899

catcgactcg gcgacgggcg actgctacct ggtgtacgaa tacgtggaga acggatcgct 180
tgacctgtgg ctgctggacc gcgaccacgc gcggcgcttg aactggcgcg cgcgcttca 240
catcgcgctg gacctcgccc acggcctgca gtacatccac gagcacacct ggccgcgcg 300
ggtgcacaag gacatgaaga gcagcaacgt tctcctggac gcccgcatgc gcgccaagat 360
cgccaacttc ggctcgcca agacggggcca caacgccatc accacgcaca tcgtgggcac 420
ccaggggtac atcgcccccg agtacctcgc cgac 454

<210> 31897
<211> 298
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-G6

<400> 31897
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gggcagcact acaagccgag acttaaaaca aacaacagag ctcaaacc aa gccatcgctc 120
tcaatacata aacataagac aacatcatalc tattcccgtc ctatcgatta ggcattataa 180
atcgagtaaa tgaacaatac tcacacccgg gagccttcat ataaaatagt gacatatcaa 240
attctaatag ttagaaacga ctatcacatg gtaaagcctg atcaaaggaa attatgat 298

<210> 31898
<211> 247
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-G7

<400> 31898
ggctaaccga ccggcttgac ccttatgaac tttatgccat ggtctccgga attgctcgac 60
gcgtgctttc atccgggcta ctctgatcaa attctagagc ccaaacatag ccatcggtcc 120
ggatacatta ccatccaata actctatact atcgccctcc aattcacttg cacttcggca 180
ctggcataat cattactcgg ttcaccgacg gctattcatc atctatcttc agaccggaat 240
gctcttg 247

<210> 31899

<211> 464
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-053-Q1-K1-H1

 <400> 31899

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 cgctccaact tcacgatacc ctaaccaaag cactgcaccg acaatgcaca ttcccaacac 120
 atgcaaccag caaccatcgc caagcttatt tgctccagga aaccctgcgt tgacacactc 180
 caagaattcc atgggtctttt caagcgcatt atccagcccc atccggcgga gcctgcaacc 240
 ttaccaccta tagcaagacg gtgatgcacg gtactttgcg aacggtgcaa gccgcgacgt 300
 gaacccacag gcttcgaatg attcgtccat ggacatgcac tcggacagcc cagctcatga 360
 ctcttactga gcagctccca ccaaccaacc gcaagagcaa cacttcaagt gtaagaagtc 420
 tgctgtcaca gccttccgag gcctagtaat aatattcaat ttaa 464

<210> 31900
 <211> 461
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-053-Q1-K1-F1

 <400> 31900

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 gcagccatga gatggtatgc atcggtagcc tctgagggc gctggtcctg agtgccggcg 180
 cgtctgcggg caggcgccgg gggcccagga tctgtgtgg ccacgaggcg gatgtacgcg 240
 tgactcctcg gcacggacac ggctggcgca gattccgggc agtcacggga aggatgatgc 300
 tggactcctc tgactgtgcc tctgctgccg ccgacgcgga gacggggcaa gtgcagccgc 360
 agcgcgcgcg ggtggggggc gtgcccctgg cgcacgacgg cggctacgcc agcggcggat 420
 gggagagaga agatggcaaa ctgagttgtg gatactcaag t 461

<210> 31901
 <211> 278
 <212> DNA

<213> Zea mays
 <223> Clone ID: LIB3068-053-Q1-K1-D11
 <400> 31901
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 aggaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg 120
 gacagaataa tttaaaagaa caaagctaac atacacatca aactaactcc aaaactcttc 180
 aaaagagtaa acaaatataa attaattgac caaatTTaaa aaaagagtga aacttaaaaa 240
 accctgattt caccaaacta aaccccatgc aacgaaaa 278

<210> 31902
 <211> 442
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3068-053-Q1-K1-D12

<400> 31902
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 gtccttctcg accgtgcgga acgagccaga gaacaggtat ggcggcggcg cggcacctca 120
 gatccggcct cccctctctc cgcgcccacc tcgcatectc cgaatccgcg gccgtcgttc 180
 aggtttcgag gggcttcgcg tcgcaggccg ctaagcccac cggaaggag atcaaggttc 240
 caaaggctct gtttggcggc acaggcaact atgccagtgc actgttcttc acagcagcta 300
 aatctaatac attggacaaa gttgaatctg agattaaagc tattgtagag gttccaaga 360
 agagcccgtt gttttctcaa ttcataaagg actngtcagt tccaaaagcg accagngtga 420
 aggctatagc cgaaatattt gc 442

<210> 31903
 <211> 459
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-053-Q1-K1-D3

<400> 31903
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ggcggcacgg catggggggcc acggcgctact cegtggcgct cctcggcggc gcacgcctgc 120
 cggccgacct cctccctcgg cgcagcagcg tgtgccacca ccagcttcgc ctacaagacg 180
 caccgaggct ctacctgcac cgtgccaggg ccgcttccga ggacacgtcg gcctacggcg 240
 gcgacgagct catcgaagac ctcaaggcaa agtgggacgc cgctgaggac aagcccaccg 300
 tcctcctgta cggcgggcggc gccgtcgtgg cgctatggtt gacgtccgtt gttgtcggcg 360
 ccatcaacgc cgtgccgctg ctccccaaga tcctggagct cgttggcctc ggctacaccg 420
 gctggttcgt gtaccgctac ctctctttca aggaaagca 459

<210> 31904
 <211> 317
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-D4

<400> 31904

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 tttgactccc gcacaacggg gcaacacaaa acgggtacaa catcacatcc ctccgacatc 120
 atcctgaaga ccgcactcat cacaccagca ccttgtagca ttaccgcatc aaccgacacc 180
 atcaccacct taacctacaa actcaccgct aactcaatg cacctcccca atttacatat 240
 ccatgacacc tactttctctt gcctacatta gtcattgca cacactcagg caaccttgga 300
 cacctgatac gacaatc 317

<210> 31905
 <211> 322
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-D5

<400> 31905

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 gtattgtcgc atgaggccct tacgaaatgt tacatggtct gtttggcatc aataatgcat 120
 gtttaacctg agcttggcga tgggttatac agaacggaaa ctctgtttgt gaatagaaaa 180
 tcatgaaggg aaggagttga ccggaccct acttgtagct ctccccggct gtgtaggtag 240

attgtcagtt ggggttccga agtactctac tcatacgtgt gtatgacagt ttatttatga 300
aacaaaatac gcattgatcg tt 322

<210> 31906
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-D8

<400> 31906

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taagaagcac acggctaagg acatcgccgc gaagatcgac tcggcgacga cgaaccgggg 120
cggccgcaag gccgggctgg cggaccggct ggcgaggagc aagggcaggc atgcgaagct 180
ggcgtgcccc ctctgccgta ccccgggcgcc cgacatcaag tccatgcaga tccaccacta 240
ggcgcgccat cccaagctcc cattcgagcc ggagaagcta ctcaacctgc actcctccgc 300
ccccgtgct gctgttgccg acgacggcgc cttegccctcc gctgccgagg ccaccaccta 360
ctagcccaag ccctgcg 377

<210> 31907
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-E1

<400> 31907

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agtcatcata taagagagaa ctccgttatg cttgacccta tgcccactct cgaaacaaac 120
tcgacacgtg acaaagaatt ccgacccgat cggcccaagt taaataccac tactattaac 180
aatgagttac ttatcccccg gttccgaagc gggacatacg tcccatatct tgaatacaag 240
ggccatccta attgcgcccc tccgctcgga ctacatctac acgtctaaag ttattctcat 300
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tcccttggc 369

<210> 31908
 <211> 315
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-053-Q1-K1-E10

 <400> 31908

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 tacttctcta tcatccgacc taattctact tatctagcct ctcttctaca aatttaaattc 180
 ctatgcaatc tttcaccttt accaacttta aatcccttga tacacctaac gttaccatct 240
 atctctttaa tcccatttat gcattcacct atcgccctac catataacga acccattctt 300
 acttgcgaaac cttac 315

<210> 31909
 <211> 296
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-053-Q1-K1-E11

 <400> 31909

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 cgagatccat taagcagcga tccgatccaga caactgatac cacactaatc aaactctaca 120
 tgctcgcaaa ttaccaatt cttacacatc taggtctaca taacaaatat caataccatg 180
 cacattagac cctgacaatc ataataacc caatctaat gacttaaata ggatccattg 240
 taccgcaaat ctattgccat cattcggaat cattccagat ccaatcccgt atattt 296

<210> 31910
 <211> 441
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-053-Q1-K1-E12

 <400> 31910

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 gcggcgggtg gcagagcgcg cacgccacgt tctacggcgg cggggacgcg tccggcacia 120

tggggcggcgc ttgcgggtac ggcaacctgt acagcacggg gtacgggcacg agcacggcgg 180
 cgctgagcac ggcgctgttc aacgacggcg cggcgtgcgg gtccctgctac gagctgcgggt 240
 gcgacaacga cgggcggtgg tgcctgccgg gcaccatcac cgtcacggcc accaacttct 300
 gcccgcccaa ctacggcctc cccagcgacg actgcggtg gtgcaaccg ccgcgcccgc 360
 acttcgacat ggccgagccg gccttcctcc gcacgcgca gtaccgcgcc ggcacgtgc 420
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<210> 31911
 <211> 461
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-E2

<400> 31911

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 gggccgcaa gaaggccatg tccaggagct ccaaggccgg gctccagttc cccgtgggaa 180
 ggatcgccag gttcctcaag gccggcaagt acgccgagag ggtcggcgcc ggcgcccccg 240
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 cggctcgtga caacaagaag acccgcatcg tcccgcgcca catccagctc gccgtccgca 360
 acgacgagga gctctcccg cttgctgggca cggtgaccat cgccagcggc ggtgtcatgc 420
 ccaacatcca taacctgctg ctgcccaga agtctggcgg c 461

<210> 31912
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-E3

<400> 31912

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 gagacctgta aaataagcgt gagcctaagc tctcaagtca aataccacta ctactaacgt 180

aatattactt atttcgtgaa tcctaagcag ttcaccgtcc gtccttttgg ctacaaggcc 240
 cgggtctcttc gtgccgatcc ggactaacta catcttcatg tctaaaagca tgctcaatac 300
 tcacatttat taaacgataa cacaggtgtc ctaacatgac catatcaaga acagatttct 360
 agtacctaac aaaatgctaa atgctcgtca cattctcaat ttc 403

<210> 31913
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-E4

<400> 31913

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 gctcaaccgc tacatcaggc ataaccgtac cgtagctgcc gatctaggac tcgctatcag 180
 aactgaatcc tatgcataca ggacctagac agacatccaa aagggtgaga cgctgaaaga 240
 gaccatggat ctcttccac acatcgctac attctgtca gatgctgcca ctaacgaagc 300
 cctcgatacg aggtaaccag agaagcgcca actgactatc ccatatggcg gtaaggctct 360
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<210> 31914
 <211> 213
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-E6

<400> 31914

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 aactatgacc attagctccc aagtcaaaca ccactacttt taacgaaata tcaactcattc 180
 ccttaatctc aagcattaca cctaccctcc ttt 213

<210> 31915
 <211> 453

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-053-Q1-K1-E8

 <400> 31915

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 caggcagaac ggtgccgcgg ctgccgatct cggcctcgct atcagagctg aatccgatgc 180
 aaagaggacg tcgacggaca tggaaaaggg ggagacggtg aaggagacca tggatctctt 240
 cccccagatc gctggattcg gctcggaggc tgccacgaag gaagcccctg atgcgaggga 300
 gccagagaag cgccaactga ctatcttcta tggcggaag gtccttgtgt tcgatgactt 360
 ccctgctgag aaggcaaaag acctgatgca aatggccagc aagggttcat ccgtagccca 420
 gaaccctggc ctgctgcctc cttccacagc tgc 453

<210> 31916
 <211> 360
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-053-Q1-K1-E9

 <400> 31916

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 ctctgctgcc tgcttctgta ttaaagaagt ggttcgatgt ctcagaactg aatacgaatgc 180
 aaagaggacg tcaacagaca tggaaaaagg gggagacaga gaaagagacc atggatctct 240
 taccacagat cgctggattc aaaatgggag gctggctcta aagaagccaa tgttacgaag 300
 gagccataga agcgccaact gactatatag tatggcctaa atgaacttgt gggccatgac 360

<210> 31917
 <211> 398
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-053-Q1-K1-C7

 <400> 31917

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 atcgtatcca ttcttacttc ccttctcttc caacttctta cctcttcttt attgccccct 180
 aatttcattt cactgcccgt cttttttacaa cttcttccct tgcaaaccct tgccttttcc 240
 caacttatcc ccttttcacc acatccccct ttcgccaatt ggcttaatcc caaaaacccc 300
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 accggccctt taaccctctc tgttttggtg gttacccc 398

<210> 31918
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-A3

<400> 31918

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 tgtttagagc gagcgaggga aaaaagaaaa catctaagat atactccaac atcttcgttt 180
 gattaacccg ccagtaaaag ccatgggtac taattataga gcggtcattt ctctagtact 240
 cctcgtgtgc atcgttagcc gatcgacctt ggggtgccgt gaaactgacg tttaacagaa 300
 tcgctcgtca gtccctttga tgtttgtgtt cggtgattcg ctggtcgatg tcggaaacaa 360
 taacttcctg ccgacttctg caccctgtgc 390

<210> 31919
 <211> 459
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-A4

<400> 31919

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 gcgcgagaag tccgagacat ggacaggag cagatgagga tggccatcct gaaccaagaa 180

cggatcttca gacaacaggt acacgagctg caccgggtgt accacgcca gaagcagctg 240
atgacgcagc aggcgcagac ggttcttgct ccggcggtcg tcgacgccga gccgagaccg 300
agaccgacgc agctggatat ctggtgcggc gagagggcga cagcaagtcc tcagcagcac 360
atcatcagct tccacgaggc cgcagcacct gcggctgcgc tggccaagga atgcaacctt 420
gagctgacac tggcgaccgg ccggccaagc agcagcagc 459

<210> 31920
<211> 449
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-053-Q1-K1-A5

<400> 31920

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gatatactcc aacatcttcg tttgattaac ccgcccagta aagccatggg tactaattat 180
agagcgggtca tttctctagt actcctcgtg tgcacgcta gccgctcgtc cttgggtgcc 240
gctgaaactg acgttgagca gaagcgcctc tcagtcctt tgatgtttgt gttcgggtgat 300
tcgctgggtc atgtcggaaa caataacttc ctgccgacgn ctgcacaccg tgctgcatct 360
gcgtacggca tcgacttccc ttctggcacc aacggcgccg tctcaagacg gttcacgaat 420
ggctacaacc ttgccgattt agtcgcgcg 449

<210> 31921
<211> 412
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-053-Q1-K1-A6

<400> 31921

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ggtcgggccc gccgcgaaga gcgcaatcaa gcaagacaag atggtgaagc tcgccttcgg 120
aagcgtcggc gactccttca gcgccacctc catcaaggcc tacgtggccg agttcatcgc 180

caccctcctc ttcgtcttcg ccggcgctcg ttccgccatc gcctacgggc aactgacgaa 240
 tggcgggcgcg ctggaccccg tgggcctggt ggcgatcgcg atcgcgcacg cgctggcgct 300
 gttcgtgggc gtgtccgtcg cggcgaacat ctcgggcggc cacctgaacc cggccgtgac 360
 gtttcggctg gccgtgtgcg gncacatcac catcctgacg ggcgtcttct ac 412

<210> 31922
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-B1

<400> 31922

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 acgacctcag aggccgtcat cacctgcggg caggtgagct ccgacatcgc gccctgcctc 180
 tcctacgccc gcagcacggg gtccggaccc tccgcgtcct gctgtagcgg cgtcaggaac 240
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 gccgacaggg gcgtcagcgg cctcaacgcc ggcaacgccg tcagcatccc ctccaagtgc 360
 ggcgtcagca tcccctacac catcagcacc ttcaccgact gtcctaaggt gaactaaaac 420
 ctataccacg cgcgac 436

<210> 31923
 <211> 194
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-B2

<400> 31923

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 gcccatcttc acatcaatgt tcagaagtta tgtgcgctat gagatttaaa ttatgagctg 180
 ccagattgtt ttgt 194

<210> 31924
 <211> 450
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 31924

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 acgacctcgg aggccgccat cacctgcggg caggtgagct ccgccatcgc gccctgcctc 180
 tctacgccc gcggcacggg gtccggcccc tccgcgtcct gctgtagcgg cgtcaggaac 240
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 gccgccaggg gcgtcagcgg cctcaacgcc ggcaacgccg ccagcatccc ctccaagtgc 360
 ggcgtcagca tcccctacac catcagcacc tncaccgact gctccagggt gaactaaaac 420
 ctagaccacg cgcgacgacg gccgcctgat 450

<210> 31925
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-053-Q1-K1-B6

 <400> 31925

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 gcgtcttcga cgccgtgctc ttcatacaac agctcgacat ccttgacatc cgctggcacg 180
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 taaagaagga cctccactac agggagaacc ggcagcgggt cggttcctc gagtcgcggc 300
 tgacctacgg caccatacgc tggagggtcc tgaatggaga gaaccggtc gtggaggagt 360
 cttaccagag ggtcgacatc gaccaggtga tcaagatacg gggcatcgag gactacgacc 420
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<210> 31926

<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-B7

<400> 31926

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gcacgggtacc ctagcatcag cgattcagcg ctcaatacaa gccaccgcg ccatggcgcc 180
cgcaccggga gctctctccg cggccaacgc cctctcgctg ctcgcgcccg ctagagtctc 240
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gtctgtcgcg gcggccacgg cgcagaggag gctggtcgcc gcggcgccgg cgacggagat 360
ggcgcccgcg gcgagcgggg aagaaggag caagccgttc gtggaggaga tgcgggcggt 420
cgcgatgaag ctccacacca aggaccaggc c 451

<210> 31927
<211> 479
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-B8

<400> 31927

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ttaactatga ctctgtgtcc gcgaaaatgc tttgttttaa tcaaactga caaatgcact 180
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tcccgccgca ctttgtttcg gtcaagctga gtctctcac gcctatccat gccttactca 300
actgctgacc tgtaacatcg aaacggtctg ctgtacgtcg agtggtacgc ttgagcaaac 360
aatctacagc ctattcaccg atcaccagtg cccaattgcc ttgccactcg ctgagcattg 420
accgcagct atttaccttg cgcacacgac acccgatat actccaactc gggcgtttc 479

<210> 31928
<211> 461
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-C1

<400> 31928

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cccagcatct acttcaagct atacaacatg aaggggggaca tcgcatgtg gcataactcc   180
ttcgactcct gctacgacaa gctcatcctt gtcaccacgc ccacctagtg ctactactgc   240
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ccggatctca ttatcctagc tcctgtcagc atcgcttaca ccttcaaaca tgacgacgcc   420
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<210> 31929

<211> 246

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-C12

<400> 31929

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aaaaaaaaaa aaaaaaaaaa aaaataaaaa aaaaaaaata aaacaaaaaa taaaaaaaaa   180
aaaaattcac tagaaaaaaaa attaaaaaaaa acaaatatta gaaaatcaca ataattttca   240
aaaatt                                           246

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<210> 31930

<211> 220

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-C2

<400> 31930

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 ctaaaatacc gtccaacttc ttcctcataa tcaaccacac gcattccaat agcacctacc 180
 atttctaaat cagctattcc actcccgaca aacgcaccct 220

<210> 31931
 <211> 455
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-A2

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<210> 31932
 <211> 172
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-G2

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<210> 31933
 <211> 463
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-G3

<400> 31933

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aacaccctga agcccggaga tgtcatccag tgccgtgaat gtggctaccg catcctctac 180
aagaagcgga cccgccggat tgtccaatat gaagcgcgct gaagagtga gacaagggaa 240
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gaaatgaaaa tgtcagactt aacgtttgta tgtcgtgtgc cttctttgaa cctgagctgt 360
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<210> 31934

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-G4

<400> 31934

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cctaatacgt gaactcacgg taaaacactt aagactctac tatcattact atgctcatta 300
tcattctaca catgtcatgt catttcaata aaaatgtact aacttaacag ctcaataata 360
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<210> 31935

<211> 443

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-052-Q1-K1-G5

<400> 31935

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 gtataatggg acggcaccag ccggaccatg cgactggnga gcctatggat gaaggattcg 360
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 accgggcatt tgagtacatt ggc 443

<210> 31936
 <211> 321
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-G6

<400> 31936

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 gagggacggc gccctgcttc cgaccacgg aatctgtaat ataacgttga aactagaggt 240
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<210> 31937
 <211> 334
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-G8

<400> 31937

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ccatcctaca caatacctca ttttccatcc acatactgcg tattcctact tccctaccaa 240
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<210> 31938
<211> 452
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-052-Q1-K1-G9
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gcttcgaggt ctgtgatgtc gttcttcatg ctgatgctat ccacaggggt ggtggccagg 240
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<210> 31939
<211> 83
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-052-Q1-K1-H11
<400> 31939

cccacgcgtt cgcggacgcg tgggaaaaaa tgaaaaacga acggatcaga aaaaaagagc 60
gggcgcttgt cagccgctat gct 83

<210> 31940
<211> 476
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-052-Q1-K1-H2

<400> 31940

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gtctccaagg tgacaatacc ctagccaaag cactgcaccg acaatgcaca ttcccaacac 120

aagcaaccag caaccatcgc caagcttatt tgctccagga aaccctgggt tgacacagtc 180

caagaattcc atggtctttt caagcgcatt atccagcccc atccggcgga gcctgcaacc 240

ttaccaccta gagcaagacg gggatgcagg gtactttgcg aacggtgcaa gccgcgacgt 300

gaaccccacg gcttcgaatg attcgtccat ggacatgcac tcggacagcc cagctcatga 360

ctcttactga gcagctccca ccaaccaacc gcatgagcag cacttcaagt ggaagaagtc 420

tgctgtcaca gccttccgag gcctagtagt aatattccaa ttaacaccct tcatag 476

<210> 31941

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-H3

<400> 31941

tgacacgta cgctcacaca tccagcctct cattcaatat ggaggtgaca atgcatcagc 60

gtgtccaagg ggacaatacc ctagccaaag cactgcaccg acaatgcaca ttcccaacac 120

aagcaaccag caaccatcgc caagcttatt tgctccagga aaccctgggt tgacacagtc 180

caagaattcc atggtctttt caagcgcatt atccagcccc atccggcgga gcctgcaacc 240

ttaccaccta gagcaagact gcgatgcaag gtactttgcg aacggtgcaa gccgcgacgt 300

gaaccccacg gcttctaata attcgtccat ggacatgcac tcagacagcc cagctcatga 360

ctcttactga gcagctccca ccaaccaacc 390

<210> 31942

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-H4

<400> 31942

cgaccgactc gtccgtccag catccagcaa attcaaagct gctatagaat cacaatgaca 60

cacatgtctg aaaactgatc acaactactg attaactaat gcaccgacaa tgcacattta 120
acaacgacat tgccaccact taccttaatg cgaactaatg cactacagtg ctaccagcc 180
cagacacagc tcattagggc catgctcctg gtaagcacag tatactttcc cagcactggt 240
agccatgcac gatacgacct agatccagac agctaactaa gtctaattgc taacttggct 300

<210> 31943
<211> 398
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-052-Q1-K1-H6

<400> 31943

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aatcacaact actgattaac taaggggtgtg tttggaacct ttaacagggt tgtccagcct 120
taccttaatg tgaattaagg cacgagggtgc ttgccagccc aggcaagcta atttggttct 180
tcctcctggt cagcaaggaa aacttttctt gcaactgtag tgaggcagga gaagtccagg 240
atccaaacag ctaactaagt ctaatttctt gcttggttag gcaaaagatt gtttgccgaa 300
tcttccaaac atgctctaag gcagtaatgc ttatctctgg caagaacttc cttntttttt 360
gaaacgaacc aggcaggaga gctgccgatt atattaat 398

<210> 31944
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-H7

<400> 31944

cccacgcgtc cgacaaactt aaagttgata tgaatcatct gatactcatg gccctaatac 60
tgagtgcacat ctactgaata actaaacata tggtccgaac ctataacaac tttgtacatg 120
actaccttaa tctgaattat cggaccaggt actccccacc ttagacacgc taattagggt 180
cttgctcctg ttcagaaccg aaaactattc ctgatctcgt atagagtcac gataagtcaa 240
ttatccacac aggttactaa ttatacttta cttgctaagc tatgctaaaa attgacagct 300

cgaatcttgc atacatgctc

320

<210> 31945
<211> 195
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-H9

<400> 31945

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agtcaccatt agcaagtgca tctaccatgg cgtcactaat atactatctc ctgactaacc 120
aaactccaac tcttcgtaga gtacagatac acgcacctat tcaacgtcat gaaccactgc 180
aataccacgc taaga 195

<210> 31946
<211> 302
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-A10

<400> 31946

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaaaaaaa aaaaaaaagaa aaaaaaaaaa 60
aagaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaa aaaaattctg ctatcttttt aaaaacccca atttaattac cccctctttc 180
ctaacaaaaa attttcttta aactacccaa aatttaatta aattcatcct gtttaaacaa 240
ctacttcctt aaaaaaacct ttttttacca aaattaaatc ctttcaattt atttcccctt 300
tt 302

<210> 31947
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-A11

<400> 31947

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atccaagatg tatctccagt attacatcaa tgagaagggg gacaaggtct acaccaccaa 120
 gaaggagtca cctcttgggg tgccgacgca gtctgctcac ccagctcgct tctcaccaga 180
 tgacaagtac tctcgccagc ggtacctgtt gaagaagaga tttggacttc tgccaacgca 240
 gaagccagca ctgaagtact gaagcttcaa ctttccaacc atggatgtgc agtttgtgtc 300
 actgcttgat gcttgttggg tggaatgtag aataggtatc tgaggaaaca tatcaaacac 360
 tgctaggcac tactatgaca tctcagcgca ttcaggcact atatgtaatg ctatgtgttt 420
 gacaggtct 429

<210> 31948
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-A12

<400> 31948

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 gtccaagatg tatctccagt attacatcaa tgagaagggg gacaaggtct acaccaccaa 120
 gaaggagtca cctcttgggg tgccgacgca gtctgctcac ccagctcgct tctcaccaga 180
 tgacaagtac tctcgccagc ggtacctgtt gaagaagaga tttggacttc tgccaacgca 240
 gaagccagca ctgaagtact gaagcttcaa ctttccaacc atggatgtgc agtttgtgtc 300
 actgcttgat gcttgttggg tggaatgtag aataggtatc tgaggaaaca tatcaaacac 360
 tgctaggcac tactatgaca tctcagcgca ttcagtcact atatgtaatg ctatgtgttt 420
 gacaggtct 429

<210> 31949
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-G12

<400> 31949

ccaacacgga tcatgccaac cacaatccgt actccaaacc ggccaccaca gacccaaaca 60
 ggggtccatga tcgagtgcga tgcacccgc atcatgaaga catcaacgag ccccggtgtc 120

cctggctcca gtgctcatca ccggcacctg cactgactga agcacaacac gcccggcac 180
 tgcttactag gccgtaacac cagcgcttca ttctaccact atacacaccg gcggaacgcc 240
 aggtcattcc aactggcaga accgccatth atgcctcgta tctcacagcc aacccaacgc 300
 tgctacaacc atgaaacctc ggagcgatcc aacccccaca aaatgactg cgtggcatat 360
 acgctgaaca gaaccagatg agaggacatg cattcgaaga gatgcacagg cacggaaccc 420
 cgctatacaa c 431

<210> 31950
 <211> 168
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-D2

<400> 31950
 cccacgcgtc cgccacgcg tccgcggact cttgggcagt gaacgagtag ttggatactc 60
 gagtttatga tgtttggtcg gtttatatct tccttgtaat aagtcaaaaa taatgttttt 120
 tttgtttcga atggagcatt aaaagaaggg gactgatgga cacctatc 168

<210> 31951
 <211> 357
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-D3

<400> 31951
 cccacgcgtc cgatatcttc aatgcaaac ctgtgtcgaa cagttatgta gtcttggtc 60
 gattaatcaa agggacaccg taatttcttg gagccaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaata aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg 240
 gtggcccttt aaaaaagttc aaaattaaca aaccttaaat tcaaagaaaa aagtttttta 300
 aaatggaacc aaaattaata taaatggacc tcatttaaaa aacttataaa ttggaaa 357

<210> 31952
 <211> 441
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-052-Q1-K1-D4

<400> 31952

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cggacgcgtg ggcgagcacg caccagcatc cttggcagcg atctgcttgc ttctcccagc   60
gagcgcgcgc ggccaagcta ggggatccat cagatatcca cgccggccat ggccgcccgc  120
gcctccacca cgtcgaggac caactcgcggtg gtgaactact cgaacgagat ccacgacctc  180
tccaccgtgc agagcgggtc cgccgtcccc accttgttct acccggacaa gtccatcgcc  240
gacatcttcc cgccgcacct tgggaagaag gtgatctcgg aggtggtggc gacgttcctt  300
ctggtgttcg tcacctgcgg ggcggcggtc atctacggcg aagacaacag gcgcatctcg  360
cagctggggc agtcggtggc cggcggggtc atcgtcaccg tcatgatcta cgccaccggc  420
cacatctncc gcgcgcacat g                                         441

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<210> 31953

<211> 270

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-D6

<400> 31953

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cccacgcgtc cgcagactct taggctgagt ccattataga aatgtttatg ccaaaaaaag   60
aaaaaaaaac aaaataaaaa aaaaaataaa caaataacac tcaccctttc tactcgaaca  120
ctctaacatc catctacatg cacatctatc acactcacat aaagctacct aaaatcatta  180
cttagaccct ttcattacta atccgttact cggaaaaccc ttgcctctcc caaatcaatc  240
aacctcaatg acatattgct ttaatcaact                                270

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<210> 31954

<211> 265

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-D7

<400> 31954

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aaaaaaaaata aaaaaaata aaaaaaaaaa taaaaaaaaa aaaaaaaaag gaaaaaaaaa   60

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agaaaaaata aaaaaaaaaa aaaaaaaata aaaaaataaa aataaaaaat aaaataaaaa 120
 aaatgctatc ctattttaaa gatttttaaaa ttaccattac cttaaattcc taactataat 180
 tattacatat tcgccttaaa tcaaattcat ttataatttt ttacattct actaacttga 240
 aaaactatcc tattactaaa ttata 265

<210> 31955
 <211> 322
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-E12

<400> 31955

cccacgcgtc cggccctagc cgccgcccgc cgacttcacg ggtgccgtcg tctagacctc 60
 gtcacgcact ggagggggta aagtccgaca tcaatggcga agcatcatcc tgatctcatc 120
 atgtgccgga agcagcctgg catcgcgatt ggccgccttt gcgagaaatg tgatggcaag 180
 tgtgttgtct gcgactcgta cgtgcgccc tgtacgcttg tccgggtctg cgacgagtgc 240
 aattatgggt cgttccacgg aagggtgtgtg atctgtggaa gagtccgcat ctacgacgct 300
 tactactgca aagagtgcac cc 322

<210> 31956
 <211> 411
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-052-Q1-K1-E3

<400> 31956

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 acgctagggtg gtgaggcctt cgccagtgtc ttcgacggcg acgagcacgt accagcatca 120
 tgtcggaaaag aggtcgccctg gcaggacgat tgattgataa ccgcagcaga gggtagcatg 180
 tagtccctct agttgaggat ccagaggcc atcctgaagt cctcgtggat ggggatcgga 240
 ggggctactc tgacattcgt ggggttcagc aacgtcgggg ctaccctgac acccatctgc 300
 ttgaggaacc taggggtac cctggtgttc gtgtggtcga ccataggggc tatcctggca 360

gtcgtggngt tgatgaacgc anggcctatc ctgagctcca tcaaggctca c 411

<210> 31957

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-E5

<400> 31957

tccacgcgtc tccccctatt ctccgcccgt ctactccatc gctcccctgg cgcaaactc 60
gtaaccctct gccaatgtct acgaccgaca tcaaacaccta cccatcatac ttatctcatc 120
atgtccccta accagactat catctcataa cccacacctta gcgtaccatg taatccctat 180
agttagtat cccactcgta cttccgcaca tctactctat tccgaccta cgacctactc 240
taacattctt cgttccaagc aacgtctgtg atcccctgac acactattat ctcaaact 300
tactacttac cctagtgac ccatcatcaa acata 335

<210> 31958

<211> 422

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-052-Q1-K1-E6

<400> 31958

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gcgttgga ccttgggttn gcggtgtatg agtaccgact cgggcccgtgt gaccggagat 120
tcgagtgcct tccggagttt tcaatgggccc tgccgggggtg cgcactcgga cactcgcgcg 180
atgntgcggt gctttcttcc ggcctgctgg acgcctactc ttccggcttt gaatccgatt 240
ccaggnnngt tggcgggctc gttatatgca gaaagagata acctctatcc cgagggcccc 300
cgcgcggtgcg tctttcggac tttcctaact gtcgctcgtc ttgccagcca acgtcaccgg 360
cttcgggaga atcttaacgc cgatttccct ttcgggggtga ctgcgcgttg agtcgcgcta 420
tc 422

<210> 31959

<211> 191

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-052-Q1-K1-E7
 <400> 31959
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 gtgccactct tactgcgact cctgcgtgcc gacacttcca aggtgcatct tgccatgtgc 120
 atgatcttca actccaccaa cgtcacacaa gtgttctctc ttatcaacag ctaaacttac 180
 ctcatgtact c 191

<210> 31960
 <211> 189
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-052-Q1-K1-E8
 <400> 31960
 cccacgcgtc cgaaaaataa ataaacatat taaaactaaa agaaaaatga gaaaaaatcc 60
 tgggacaatc taaaatagta ccacacaaca aacccaatcc actgcatcat tattgcaaag 120
 cgccagcagt ccttcacat aatacaattt tactcggcta ataacggcac acttggtgta 180
 ttactacat 189

<210> 31961
 <211> 449
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-052-Q1-K1-F1
 <400> 31961
 ggttgcgga cacccttcgg aagcaagcca gtttgctcta gggctgactg atggtggtgt 60
 gtttggttg gggcctttgg aatcggagag aaaatggga aatcctccac cagtagagaa 120
 tgggtctgct agcaacttgt ccacaccgcc tcctaatgga gtttcaagtt ctgaccaacc 180
 agaaagatga ttaagaagtt ggaactggta gatttttctg ggcacgagtc taaccaagaa 240
 ggtatccttc aaagttaatg aaacaaattg gaacttcttt atttaaattc cttggcatga 300
 tatgtataga acattttatt ataacgtatt gatgcaattt aggagtttga caataagctg 360

ccatgattta ctcagaaata tgatcaatat aatcatgtga acatagaata tagtgtatgt 420
 ttttgccaac agattaattt ctctttttac 449

<210> 31962
 <211> 328
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-F12

<400> 31962

accacgcgtc cgaaaaaaaa aaaaaaaaaat ttaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
 aggaaaaaaaa aaaaaggga aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa agttagaagc tataaagaac 180
 taaatctaaa caccacaact tcgcaacact aaatctttta aaaatgccca caaaaataaa 240
 atcaaatca aaggtttata aaatactagg atgaataaaa atcggggagc acccaacaaa 300
 aatggaaaac taaaaaatac cattaaaa 328

<210> 31963
 <211> 262
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-F2

<400> 31963

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 ggcaagggtgc gatggtcac tggatggtag cacggcccaa cccgagccac tgctcgtgat 120
 ggcaaaccgc cagcggtcct tggccggcgt acagttttac tcggctaaaa ccggccccct 180
 tgggtgtatta ccagattacc aacaaccttc gacgcagccc cagaattcac atcccaaccg 240
 tgtgtaaagg ttgtctgatc cc 262

<210> 31964
 <211> 212
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-F4

<400> 31964
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tacctacgtc cctcgtccga gctttaacat cttgcgcgca cccacaaaaa cttaactact 120
agccatgata acagatctat atgctctcat caaatatggc ttaataattc acttaaaaca 180
tcttacctc taataaaatt accagtatat tt 212

<210> 31965
<211> 451
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-052-Q1-K1-F5

<400> 31965
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gagctgcctc cccgcccgtg ccaccgcaag gggaaatcaa cgaagagggt gtctatggtc 180
aggggcctga tcagagagggt tgctgggttt gctccttatg agaagcgtat cactgagctt 240
ctgaagggtg gcaaggacaa gcgtgccctg aagcttgcta agagaaagct tggaactcac 300
aagagggcaa aggacgaaga gagaggagat ggcgggcgtg ctcangaaga tgaggtcggc 360
ttgtacgcac actgacaaga ngaaatagag agcatttaag ttcattggag ctgcagagaa 420
tatgttcagt gtctgatttt catacatgta g 451

<210> 31966
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-D12

<400> 31966
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ggctctattc gaccgtggaa acctctatct tatactacat ccaccaaaca atatactgaa 120
cacggatctg catatgacta agggcacgac aatggcgcac cggacaccgt gcgatgtgag 180

gtgctcttcc ggccgctgga ccctacctac ggctgaaccg attccataga tggccgaccg 240
 ttaagcacac atgataactc ttcttgaggc ccctatcggc gtatccagac ttactaacgt 300
 ggccgtctgt ctccacgtcc cggctcggga aatcttaacc cgactccctt taatgtgact 360
 cgcgatgatc cgctatctgc caggtttctt caatccctta agatcggctt acatatgtgc 420
 aagtgccatt cacatggaac c 441

<210> 31967
 <211> 444
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-052-Q1-K1-F8

<400> 31967
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 tgctctcaga tctcgcgcg cccccgcaaa gggtaacttt gagccatggg cacagttgtg 120
 gatgctccag cagttgtggc tgaagaggtc actgaaaaca tgttgggtgg taagaaagtt 180
 acagttgtat ttgttctagg tggctcctgga agtggaaaag gcacacagtg tgccaacatt 240
 gtggaacact ttggattcac ccattcttagt gctggagatc ttttgctgac agagattaaa 300
 tctggctctg agaatggaac catgattgaa aacatgataa aggagggaaa gattgttcca 360
 tcagaggtga cctataaagc tgtgcaggag ggcaatgata anaatgaaaa tgacaattcc 420
 tgatcgaacg gatttcaagg aatg 444

<210> 31968
 <211> 454
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-G10

<400> 31968
 cgaagagaaa agagaagaac ctctatccgg aagcgaagaag gaccagaaga aaccagaggc 60
 gactccaggt tcgtgggcga tgctgcgcgc gggaggtagg cagctccttg ccccggggct 120
 ccggcggtc ggtctgggca ccggcgccgc cggtaggtg ggcccgccg ccgcggcggc 180
 ggtgatgagg gcgtaccacg agcgggtggt ggaccactac aacaaccgc ggaacgtcgg 240

ttccttcgac aaggaggacc ccaacgtcgg tactgggctg gtcggcgcgc cggcctgcgg 300
cgacgtcatg aagttgcaga tccgcgtcga cgaggactcc ggtaaaatcg tcgacgcctg 360
cttcaagacc tttggctgcg gctccgccat agcgtcctcg tccgtcgcta ctgaatgggt 420
gaagggaaaa ccaatggatg aagtcttgac aatc 454

<210> 31969
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-B2

<400> 31969

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ggcggcgatg gcggcgctcg tctttccagc gctgctgctg gccgtagcgg cgggtgcttct 120
cctaccggtg gcagaggccg tgtggctcga gctcccgccg tctgggacca agtgcgctctc 180
cgaggagatc cagcccaacg tcgtagtgct cgccgactac gctatcatgt acgagtccca 240
ccccagctcg catcccaccg tcgccgtcaa ggttacatca ccctatggca atactgtgca 300
tcataatgaa aatgcttcaa cgggccagtt tgcattcacc acttcagaag ctggaaacta 360
ccttgcatgt gtctggatag acagcgtgga caaaggatca ggaacatctc taaatcttga 420
ttg 423

<210> 31970
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-B3

<400> 31970

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cgtaccctat gggggcatac gactttccag ctctacttct gctcatatca gcactccttc 120
tcctaccggt aacagatgcc ccgtcgctcg aactctcgcc atctgacacc aacttcctct 180
ccgatcagat ccatcccaac gtcctattgc atcccgacta cgctatcatc tacgattccc 240
acccaccta tcatcccacc ttacgccttc aagtaataca tctaccatat tgccacatac 300

tgtgcactca tattataaat acatttcate agtcctgtta gcattcacca cttcagaagc 360
tctaaactac cttgcatgtt tctggatata 390

<210> 31971
<211> 412
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-052-Q1-K1-B4

<400> 31971

cccacgcgtc cgcccacgcg tccgcgattt cattcaagaa taaacttaac atgcgttaat 60
gatgaaactg gagggttgga cccgaagaag ttcagcgttc tgggtaactg gcagcgtgat 120
tactcaatgg aatacatcct aacctatctc aagaaagaga tgacatcgcc acagaaccgc 180
aagctagtgc agcctccgga agggacattc ttctaaagat ggcagcaact catgtccatc 240
catggtgact cggaacacgc ttctgcacct ggttcctata ntttatatat ttagtctgat 300
ctcccagtta tctgtaaacc accgagatcg agtgcaagca gacttggttg atttacaatt 360
tgcccgggtg gtgctaataa tatgggatga aacgggtgcc ggtttggctg ct 412

<210> 31972
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-B5

<400> 31972

gggaaacttg gctatggaaa gaggcaact ggaaatagca tccttggagg ggaagcatgg 60
gtatcagaat attcacattc tgggtgttact aatacttgtc agctgggaag cactaccctg 120
atggactgcc ggaccatcaa tggtattgat acaccagggt tatttgatat gaggattgca 180
tcagacgatg ctggtaaaga gattgttaaa tgtatgaaca tggctaaaga tgggatacat 240
gcagttctaa tggtttttag tggcacatct cggttttctc gagaggatgc aagtacaatt 300
gagactatta aggtcttttt tggagaaaag attgttgacc acatggtttt agtttttact 360
tatggtgatc tagttggtga atctaagttg aagaacatgc tcaatgatgc gccagagtat 420

ttgcagaatg ttgatgagct atgccaaaa

449

<210> 31973
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-B8

<400> 31973

gtcaaggcca agatccagga caaggagggc atgcctccag accagcagcg gctcatttgg 60
gccggcaagc agctcgagga cgggcgcacg ctggccgact acaacattca gaaggagagc 120
accctccact tgggtgctgcg tctcaggggc ggcattgcaga tcttcgtgaa gactctgacc 180
ggcaagacta tcacccttga ggtcgagtct tctgatacca ttgataatgt caaggccaag 240
atccaggaca aggagggcat cctccggac cagcatcggc tcatttttgc cggcaagcag 300
ctcgaagacg ggcgcacgct ggccgactac aacattcaga aggagagcac cctccacttg 360
gtgctgctgc tcaaggggtgg catgcagatc ttcgtgaaga cacttactgg caagacgac 420
a 421

<210> 31974
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-C1

<400> 31974

cgttcgaagc attcgagcgg acaagaatga aggcttctt cagctacctt ttgacaaagc 60
cctcctcgct gatccatcgt tccgcccact tgttgacaaa tacgcagcgg acgaggacgc 120
tttctttgct gactacgccg aagcccacct gaagctttca gaattgggat ttgctgaggc 180
gtaacgaacc agaagagtgt ggtggctgtc gccggccggc cttgtgtttt tgttgctctgc 240
ttttctcttg aacgaagatg tgatgaactc agctgaagat gtagtgtgta tgttgctcatg 300
gtttatTTTT ctattttatt tatctatcta taatatctat cggagaaaaa aaaattaata 360
aaatctTTTT ttaactTTTT ttatattctg tattataata gtaatttctt tttttttatt 420
aaatataa 428

<210> 31975
 <211> 452
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-052-Q1-K1-C11

 <400> 31975

 gtagtcatat ggctgctggt gtgaaggcta aacctaaaac tgaaccaccg cctgacagag 60
 cggaacaaaa tagggaagca gttgggccag cacagttgac tggtaccttg ttatctaata 120
 ctgaagaaaag tgcagacaat gtggttgtgg atatcgaaag accacataac aggagatta 180
 atgggatccc agcatctaac gcagtgccta ggtcatcaga ggatattgag gatggtgagg 240
 tcgttggaaat catcacactt gaggatgtat ttgaagaact cctacaggag gaaattgtgg 300
 atgagactga tgaatatggt gatgtccata aaaggatccg agtagctgct gctgctgctg 360
 catcatcggg tgcaagggtt ccatccgtta ggagattaac gggccaaaag gctgcaaacc 420
 ttcaaggagc acagaatcgc caaggacagc ag 452

<210> 31976
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-052-Q1-K1-C12

 <400> 31976

 gtagtcatat ggctgctgct gtgaatgctt tacctaaaac tgaaccaccg cctgacagag 60
 gggaacaaaa taggggagca gttgggccag cacagttgac tggtaccttg ttatctaata 120
 ctgaagaaaag tgcagacaat gtggttgtgg atatcgaaag accacataac aggagatta 180
 atgggatccc agcatctaac gcagtgccta ggtcatcaga ggatattgag gatggtgagg 240
 tcgttggaaat catcacactt gaggatgtat ttgaagaact cctacaggag gaaattgtgg 300
 atgagactga tgaatatggt gatgtccata aaaggatccg agtagctgct gctgctgctg 360
 catcatcggg tgcaagggtt ccatccgtta ggagattaac gggccaaaag gctgcaaacc 420
 ttcaaggagc acag 434

<210> 31977

<211> 392
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-052-Q1-K1-C2

 <400> 31977

 gtcgtcacca gcagggtgtc ccggccctct ctagtttcta ccccggtccc caacattggc 60
 gtgatgtgtc tgcgcatgta gcccagcgct cccccctcgg cttcaccggc ggcggcggca 120
 acgacggtga aaactacatc ggggtgctagc tccgacggtg gtgctgtccc tgttgacgat 180
 agggcacgcg gggcgcgggc agcttgtaag cgttcgatcg gccatgtagg gcaactatac 240
 atcttttgga ggtctccatc atcctccgtg ggagagaaga tggtaatgga gtgctgtgtg 300
 atgtatgtgt atgcccaggg cgcgcgcgcg cggctctggg cgagtcacag tagagatgca 360
 atatcatgta tccagtatct tttctacaac ac 392

<210> 31978
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-052-Q1-K1-C3

 <400> 31978

 gaaaggtttt catgatatgg cagaggcaat aaataacgat tgtcaaaaat ccttcctttt 60
 tctttcattt gaaaagtgc taaaaattat attgccattt ccattttaat tatattcttt 120
 tttcttaatg ttaataaaaa aaagaagaaa attctggttt tttctttcca aaattcgata 180
 taggctgaaa gacaatcaga tcttttttct cttcagcggg cagttccata tagaatttgt 240
 tagaataaaa caagcggggt aaaaaaaaaa actctttttt tttatttatc cacaaagcaa 300
 aaaaggttct tatcaaacc acaataaaat gggaaagaaa gataaagtaa gtagacctga 360
 ccccttgaat aatgcctcta tctgctattc tgatatataa attcgatgtg gatgaaattg 420
 gtg 423

<210> 31979
 <211> 333
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-C4

<400> 31979

gcccggggcgg cttctgggtg ctctccggcc cgcccgtaa ctacgagaac cgctggcacg 60
gctggaacac gaccgcgcag gcgcagaagg ccgacctgga caggctcaag aagatgctgg 120
ccagcatgtg cttcaagctc tacagcatga agggggacat cgccgtgtgg cagaagtccg 180
ccgacgcctg ctacgacaag ctcaccccgg tcaccacgcc cgccaagtgc gacgacagcg 240
tcgaccccgga cgccgtctgg tacgtgcccc tgcgctcctg cgtcacggct cccagcccca 300
agtacaggaa gctggggctc aacgccacgc cca 333

<210> 31980

<211> 320

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-052-Q1-K1-C5

<400> 31980

tcccactcgt ccaccactc ttccacnaat ttgtaaaata cctccttata gtacgatttc 60
gcaaattcat aaacattatc attccaattc catatcaaac atattctctc ctctcaacat 120
taataacaaa tataacaaaa ttctcattct atctttccaa aactctatat atcctgaaac 180
acaatcacat cttttttatc ttcaccctc atttccatat atacattgtt acaatcaaac 240
attctaataa caaaacacaa ctctatttat ttatttatcc actactcaaa aaattttctt 300
attaaaccaa ctataaaatc 320

<210> 31981

<211> 223

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-C6

<400> 31981

cccacgcgtt cggacgagtt caagaaggag gagaagcagc acaagcacgg gcagcacctg 60
ggcgaggccc gcaccattgc cgactgcgcc ttagcactct acgagaagca ccaagctaaa 120
aacgaccctg aacactcgca ccgacacaag atcgaagaag aagtcccagc ggctgctgcc 180

ctcggcttca gcggtttgc ctttcacgag caccactaga aga

223

<210> 31982

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-C9

<400> 31982

cccacgcgtc cgggcggcgc cggcgtgctt gtgatctcaa cccaagtcgt gcctccgctc 60

cggtcacccg tcggtccacg caaccatgtc gaggaggaag accagggagc ccaaggagga 120

gaacgtcacc cttggacca ctgtccgtga aggagagtat gtctttggtg tcgctcacat 180

ctttgcatcc ttcaatgaca ccttcattca tatcactgat ttgtctggga gggaaactct 240

ggttcggatc accggtggca tgaagggtgaa ggctgaccgt gatgagtcgt caccttacgc 300

tgctatgctt gctgtcaag acgtcgcaca gcgctgcaag gagcttggca ttactgcact 360

gcacattaag cttcgtgcc aaggaggcaa caagaccaag accccaggac ctggtgccca 420

gtctgccctc aaggcgcttg ctcgttccgg gatgaaa 457

<210> 31983

<211> 182

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-D1

<400> 31983

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaaaaaaa attaaaaata acaagacctc 60

tggttacatc cggggtcatg ctacctcgta tcctattcta taatatcacc taatttcact 120

ccaaaattca tccacttaca cctcctttta caactaaaac cctgacatta cccaacttat 180

tc 182

<210> 31984

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-D10

<400> 31984

gggtcgaccg cgacgcgtcc gccacgcgt ccgtagatag tgaactgaca atccacatga 60

caggtgttaa gtatgaactt ggccctgctg attccgcagg tgctaaccag gagttgatca 120

ttgatggcaa gcatggcgaa gaacctgac ctgatgatac tcgtcaagat gttttaaaat 180

ctggcaatgg gacagatatg ataacagaac agagtggaaa ttccatgggt ctgaaagctg 240

aacctgatcc tgacgatcat gt 262

<210> 31985

<211> 148

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-B12

<400> 31985

ctgtattgca ggatgttgcg ctaatactgt ggtcgatttg cgatgtttgt tctgtatcgg 60

atgatgtttc ctagtaagc tgcttgaata gatcatgctc aatgtaccat tatttacact 120

ggagactaga caaaaacaat cgtttgat 148

<210> 31986

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-H11

<400> 31986

cggacgcgtg ggcggacgcg tgggccagaa gagcttgcag ttactgagag tgtgtgtgag 60

agagaggatg ggtggcagcg gcagggctgc tctgctgctg gccctggtgg tggggccgt 120

gagcctggcc gtggagatcc aggccgacgt cgggtacggt tacggcggcg ggtacacccc 180

gacgccgacg ccggccaccc cgaccccgaa gcccgagaag ccccccacca agggggccgaa 240

gccggacaag ccgcccgaag agcacaagcc gcccaaggag cacggggcca agccggagaa 300

gccgccaag gagcacaagc cgacgccgtc cacgtacacc ccgagcccca aaccacgccc 360

gccgacgtac actccccccc cgacgcccc caagccgacg ccc 403

<210> 31987
 <211> 405
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-051-Q1-K1-H12

 <400> 31987

 ctccgactga tgattggttt tgggtgtgga gaatttgatg gcaactcctc tgttatttgt 60
 gggaagatga gatgtagttt attggtgaca acaaaaaggt caagggtata aaatccatct 120
 gaaaaggacc aggcaagact agaggggatg aataggtctg ttataaaatt tactcaaagc 180
 aatggttagt gataggtgcg ccagttctag gaaaaaatgt actagcgggtg caacggttct 240
 aggcgcaact atgctactat cacaaaatag agcacctcat gaacataatt caaaatctac 300
 aacaagaaaa gtatattgag taaattacta gtgttcccag tagtgtatag agactatttc 360
 atcacttttc ctaggatgga cgctctagca caagtagata aagtg 405

<210> 31988
 <211> 505
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-051-Q1-K1-H3

 <400> 31988

 tctaaaaaaa ataaaaaaa aaatataaaa aaataaaaaa aaaaataaaa aaaaaataaa 60
 aaaaaaaa gggtaatatt taaaattatg gaaaataatt tatttataat ataatttttt 120
 aaattttatt tttatttata ttcaattata ttattttttt aaattgttta ttatttttaa 180
 atttctattc tttttaattt ttatttttct ttttaattata ttttttttat atttttattt 240
 cttttttaat ttttaatttt ttttcctttt tttactttct tttccttttt attcctttta 300
 tttttttatt tctatatttt tttttataat ttttcctttt cttatttttt tttccttttt 360
 ttttttatta tttttttata ttttttttat ttttttattt attatttttt ttttttattt 420
 tttttttatc tcatttttta tttttttatt attttttatt attttttact tttatatttt 480
 tttatttttt tttttttttt tttttt 505

<210> 31989
 <211> 223

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-051-Q1-K1-H6
 <400> 31989
 ggctcgcggtt gcgagtctaa cctgacgatg gaaactacaa tggttgtcgg aaggatatgg 60
 cccgtgtgaa catgaactgt agcctggagt agaggcaaac accgtgggtc gaccaactta 120
 atagccctaa tggctggatt ggtaatgaga taataatatc gcgcctatac tacaactatc 180
 tctacattta tgactagatt gctgactata ggactacagg gga 223

<210> 31990
 <211> 404
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-051-Q1-K1-H9
 <400> 31990
 tcgcccacgc gtacgccatt actagtcatt ggcaacaaaa tagacaagcc tgaaggtctc 60
 cctaaacaaa ccttcacaga aataatgggc ctaaagacga tcaactgaccg agaagtggca 120
 tgcttcatga catcatgcat gaactcgacc aacattgatt ctgtcattga ctggctggtg 180
 aagaactcga aaaagaagaa ttgaacttaa atctgtacta gctattaaag cgcacgccaa 240
 tctctctatt tttgcatgtc tcatagcatt ggagctgtaa atcatgcaag aggtattaat 300
 cagggatggt gtgttcataa ttttgttaac ctggtttagc agtatgttgg tggacagcgt 360
 ctggtattga gcacgcccgt gctctgaggc tgcctcctgt gtcc 404

<210> 31991
 <211> 438
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3068-052-Q1-K1-A1
 <400> 31991
 cgaaggcatc tccaatctcc tcgcccncca cggacctgaa ccgagaacct ttaccgccgc 60
 ggcctctcgc ctageccgccg gagaagcgcc gctcgctcag gaggacagcc atggcgccgg 120

agccggagga tgatattatg aacgagaaga atccccgccc gctcgacgag gatgacatcg 180
cgctcctcaa aacctatgga ctggggccgt attcgaccag cattaagaag gtcgagaagg 240
agatcaagga aatggccaag aaaatcaacg acctctgtgg gataaaggag tctgatacag 300
ggctggctcc acctagccag tgggatttgg ttccagataa gcagatgatg cangaagaac 360
aaccgttaca agtagcaaga tgtacaaaga ttataagccc taatacggat gatgccaaat 420
atgttataaa tgtaaaac 438

<210> 31992
<211> 455
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-052-Q1-K1-A11
<400> 31992

gcgcgcaccg ccgtcggccc accgcttcag ttggcagttg cgacttgcca gtggctccaa 60
caaggcaaca caatccggcg gcaccaaccc agcgcggcgc caccggcgac ccgtaccccc 120
ttccccggag agcgatggcg acggagctga cggcggcgca gctgcgcgcg tacgacggca 180
ccgaccgctc caagcccacg tacgtctccg tccggggcaa ggtctacgac gtcacctccg 240
gccgcggctt ctacggcccc ggcgggcgct acgccgtctt cgcggggcgc gaggccagcc 300
gcgccctcgg caagatgtcc aaggacgagg ccgacgtctc cggagacctc tccgggctca 360
ccgacaagga gctcggcgtc ctcgccgact gggagaccaa gttccaggcc aagtacccccg 420
tcgtggcccc actcgccgcc gacgcctgaa ctcgg 455

<210> 31993
<211> 357
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-052-Q1-K1-A12
<400> 31993

cgcacgcgtg cgagccaacc gcttcagttt tcagatgcga cttgttagtg gtcceaacag 60
ggcaacacaa tccagcggca ccaaccagc gcggctccac cggcgacccg taccaccttc 120
cacgcagagc gatggctact gagctgaccg cgacacaact actcgcgtag tacggcaccg 180

acccggtccaa gcccatctac gtctccgacc gcggcaaggt ctacgacgtc acctccgacc 240
 gctgcttcta cggtcccatc ggcgctacg tcgtcttacc cgcccgcgag gacagccgag 300
 ccctcggcta caactccaaa tacaatgccg accttctcag acacctatcc ggggtca 357

<210> 31994
 <211> 386
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-A3

<400> 31994

taccgggctc gaccgacgag tccgcgaga ccagcagctg atcgctcact cttgcagctc 60
 gatcattctt tagctgctct agctgtagcc tctaggccta gctagtagct agccactcgg 120
 tcgtgtagtc atcagccttc tgatcgtcac ccatggccac tgccgaggtc cagacccga 180
 ccgtcgtggc gaccgaggaa gcgcgggtgg tggagacccc ggctccgccc gccgtcgtgc 240
 ccgaggaggc tgcccccgcc gccgaggcca aggtggagga gccagctgcc ccggcggaga 300
 ccgagccagc tgccgtcgtc gagccccagg cggcccccggt ggcgggcgat gaagagacgc 360
 caaaggatga agagacggca aacgat 386

<210> 31995
 <211> 378
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-A4

<400> 31995

cccacgcgtc cgcactcccg cccctacgcc ttacaaaccc acacaaaaac ccactccac 60
 gcctccgacg tgcacctga cccccaagcc tacgacacct aatccgacct cgccgacgta 120
 cactccaagc cccaaacctc cgacgccccaa gccgacccca ccgacgtaca ccccttcccc 180
 caagccttcg acacctaagc cgaccccgtc tacgtacact ccaatcccta agccaccggc 240
 taccaagcct tccagccca agccgacccc gacaacgtac accccttcgt caaagcctac 300
 gacaccaag ccgaccccggt cgacgtacac acctataacc aagcctacga cgccaatcc 360
 gaccccgta acgtacac 378

<210> 31996
 <211> 370
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-052-Q1-K1-A5

 <400> 31996

 actcgtccga aaaataaaaa aaaaaattta aaaaaaattt taaaaaaaaa aaataaaaagg 60
 aaaatatagg gatattttaa aaaaaaaca atcaatcaaa aaaggcctcc ctcttttcat 120
 gttccaagtt tacttactct tcctttccac actctttctc tcctttactc tcatctcatt 180
 tcacttctct gaccctcttt ttccaacctc ctctcttcta aaactctgtt tttcccatc 240
 ttaatcccct tgctcccat cacttttct ccactttacc taatcactaa tagcccttta 300
 cccttcgctt tcctaaacat ttccacatcc tatttgcaa atggatcact ccctttaaac 360
 gacctttacc 370

<210> 31997
 <211> 257
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-052-Q1-K1-A8

 <400> 31997

 cggacgcgtg ggctagagtt cagtttctga gattgggcaa cggcagcggg tcagctcggg 60
 aagtttgtgc tgggatgcca gtttatccct tctagtctat tacagaaatg ttgttcggag 120
 ctgagtctat tataaacatc ttggtctgag tttattgttg agtggtgcca gtttttttca 180
 atatacatat atcttaaaaa cagcgttact gatgtttttt tgtctaaagt taatgagttt 240
 gcaatgggtc tgagtct 257

<210> 31998
 <211> 400
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-051-Q1-K1-G9

 <400> 31998

cccaccaata gagccgtgta ctataatgat agatctctc cggctgaatt gaggcgagac 60
 atgccggtgg gaactgaagc tgccagctac cgctccccg ttccagctcc ggacgctgct 120
 gcggcagctg cagccaccgc cgcgacacag gcccctcctg gatatgttct tgcccagatg 180
 catgcgcctc cgccaccgca gcagcctcca ccacagcagc aaccacaaca gccagctcct 240
 cagcagattg ttgctgctgg gaatcaacat ttcattccaca accctgccac tggcaccttt 300
 attccaatcc aatcctatta ccaccatcct gtccatcagc aggcacccca gaccatgcaa 360
 aggcagcaac aggcacctac gttcgaccca aatacagga 400

<210> 31999
 <211> 371
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-A9

<400> 31999

aggacgcgtg gtcggcgacg gttataacct gggcatcgcc gagcagagcg gcatctccgg 60
 gggcggcttc tgcttcggca tgctcccggc cagctcgtc gggtacgaag tcaacgccga 120
 cattctgctc gatgtttact ggaaccagct ggacggcgga tgcaagcccg tcgtaggagc 180
 acaagacgtg gacgccgggc ccaccgaagt cgtcgaggat gaggacgtca cgtgacaccg 240
 atactcgac gccaccatgt ggcaccttct tctgcgacac gccagtcac agcaggtgcc 300
 gatcggctac tactacgcat ggaatgaaga cctcgtgaag ccgcccacg gcgtgccaca 360
 cacaaggaaa g 371

<210> 32000
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-B11

<400> 32000

cccacgcgtc cgcccacgcg tccgattgtc gacgatcttg tgtccatcga cactctaattg 60
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 ttcaacaaga tctagagttc agtttctgag attgggcaac ggcagcggct catctcgtca 180

agtttgtgct gggatgccag tttatccctt ctagtctatt acagaaatgt tgttcggagc 240
tgagtctatt ataaacatct tgggtctgagt ttattgttga gtggtgccag tttttttcaa 300
tatacattta tcttaaaaaac agcgggtactg atgtcttttt gtctaaaata acaaagcatt 360
aggctacctt aaaagagtaa tagatactct cgccatttac tctcacttgg ttgaatttct 420
taaatta 427

<210> 32001
<211> 389
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-051-Q1-K1-F1

<400> 32001

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catggagcac aaggaggctg ggtgccaggc ccccgaggga cccatcctct gcatcaataa 180
ctgtggcttc ttcggcagcg cggcgaccat gaacatgtgc tctaagtgcc acaaggagat 240
gataacgaag caggatcagg ccaagctggc tgctnctct atcgacagca tcgtgaacgg 300
cagcgacgcc gtcattggagc cggttgttgc tggcagcaac acggtagtag cttgtgcca 360
agtcgagttg caaacaatga acgtgcagc 389

<210> 32002
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-F10

<400> 32002

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cacctgggtgc tccgcctcag ggggtggcatg cagatttttg tgaagacatt gactggcaag 180
accatcacct tggagggtga gagctctgac accattgaca atgtgaaggc caagatccag 240
gacaaggagg gcattcccc agaccagcag cgtctgatct ttgctggcaa gcagctggag 300

gatggtcgca ccctcgcgga ctacaacatc cagaaggaga gtacccttca ccttgttctc 360
cgccctcaggg gtggtatgca gatctttgtg aagaccc 397

<210> 32003
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-F2

<400> 32003

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aacttaagat tcaaagtctc cggaatggaa atgagggaaat gtccacatta cccggattta 180
gtcagatcca attcgaggga ttatgtatg tcatatcaatca aggcttggca gaagaacttg 240
ataagtttcc cacaattaaa gatccagatc acgaaattgc atttcaatta tgtgcgaaag 300
gatatcaatt gctagaaccc tggataaaag aaaggaatgc tgtgtatgaa ttactcacct 360
attcattcga attatatgta ttcgctagat taaatttttg tttccatgtg 410

<210> 32004
<211> 468
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-051-Q1-K1-F4

<400> 32004

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ccagggacca cagtgaccgt gaagtggcgt ggaaagccag tcttcacag gcgtcggaca 180
gaggatgaca tcaagcttgc caacagtgtg gatgtggcat ccctgcgcca cccagagcag 240
gatgcagagc gtgtgaagaa ccctgagtgg ctggtggtca ttggcgtgtg cacgcacctc 300
ggctgcattc cactacctaa ttgccgagac tttggcggct ggttctgccc atgccatggt 360
tcccactatg acatttccgg gaggatccgc aagggccctg cgccgttcaa cctcgaggtc 420

cctacctaca ngttcttgga gggagacaaa ctgctcgtag gcttaaaa

468

<210> 32005
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-F5

<400> 32005

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gtcgcgcgcg ttcttttcgt gtcccaatct ggaaggacga cggacggtac ggtggctggt 120
ttagctatag aaaaaaaaaa aaaaaggtag gccgcgtgg tggcgggtgct aatatgctta 180
gccacgcgcg gttgatcttt gagaagttaa gcgtgtacga aatgacagct ttgtacgtgt 240
actgtctgct ggagtgtgct gtgtatctgg tctggatccg atcggcctaa tgtatgaaaa 300
aaaggatggt tacgtactaa atggaaaatc attttttcc 339

<210> 32006
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-F7

<400> 32006

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gcctatgaga cggccaagtg ggagaagatc acctacgccg ggatcgtgac ctgcaccctc 180
ctggcggcgt acaacctgtc caagggccac cccacttcg atgagccgcc ggcgtacccc 240
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gaccaccact gagccctgat tagcacacct tcaggagctg gtgcacgctt aaaagagtta 360
tatggttggt tcagtgattt tccttttccc ttgagaccta tttgctgcaa catgaaataa 420
gaatgaccaa actcttgat tgacagtga gttttaact 459

<210> 32007
<211> 459
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-F8

<400> 32007

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agattggtgc cgcattgtac tttcatggga cccccctct gaaagagttg agaagtgtac  180
agtcacgcgc agtcacttag ttagcgcttt gtgctaggag gttgtgacca gtggagctct  240
at ttggcata ttggaatttg gaatccggct acattgttgt acagaccttt gattgacgta  300
gcttgagag gatgtaggag tgaacagggc catgctttga agcgaacaag ttataggcat  360
atgggagctg gggatcatcc gagacagatg ccgctcgaag tgtcactgta cttgttgtgt  420
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<210> 32008

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-F9

<400> 32008

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gacgtacact ccaagcccca agcctccac acaccgacg cccaagccga cccacccgac  180
gtacaccct tccccaaagc cttcgacgcc caagccgacc ccaccgacgt acacccttc  240
cccaaagcct tcgacacca agccgacccc accgacgtac actccacac cgaagccgcc  300
ggccaccaag ccgaccacct aactccgac gccgccggtg tctcacacc tcagcccgcc  360
gccaccatac tactagaaag cgatgcctac cataccacac                               400

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<210> 32009

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-G1

<400> 32009

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tgcttggatc aacatgacca atcctcagca tatcattccg ttttatcaga gttttaatgg 120

taaaaagtgg gagaagttta acagtgagaa ggtggcatca cttgcttatg ccagaatcca 180

agggaaaaca gccctgattg ctcatctcca gaactctagt ttgatgaatg aggacaaacg 240

ctgccgtccc atacttttcc actcagatgg tctaatagca ggagatcagg aacctttccc 300

cacgggttca aacatccgag ccaggtctgg gagatcccgg acttcttcgg gtgaagaaaa 360

tcaccatgac atccagacag tcttgaccaa cggtgacact tcttccaatg gagctgacaa 420

ttcaggtccc accaaagata ctgagtag 448

<210> 32010

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-G11

<400> 32010

accacacac tctcatcgc acaatctaca cgactcaact gaacagatcc atcgactcca 60

caccgacgcc actgttactt gggacgctac tactactact cccctcctcg ctctcctcc 120

tgctacgctc gcgaggcaag cgcacggcta ccccatacc catcgaaact gccgatgctc 180

atcaccacga catgactcac caactacccc gcccaaactg aacccttgct gacacgccta 240

tctaagcggt acagtcccat cacggctctc cgc 273

<210> 32011

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-G12

<400> 32011

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gcactgcgct gtagctccgc atcgatcatg aaggtaagg cgccgccggt catccagtgc 120

acatgcatgg ttagcggcac ctgcactgac tccgtgcaac gagctagctg cggcacctga 180

agaggcagat gccgacgcgc ctgcagatgc cgcttcagca gatggagcct aaagctctac 240
agactcaaat aatgcagcta gctcactgct cttcatatgc tcattgcttg ctgcctgcta 300
actagtgggtg atacaactat tgttgccatg ttactaatca gtaatgatgc atctcccttg 360
gtcatgacta tgtacttacc tatgat 386

<210> 32012
<211> 425
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-051-Q1-K1-G3

<400> 32012

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gctagaggca acatacagac aatcagctga ctctgttgca gttgaatcaa tgattgcaaa 120
gttgacagag aaggaaggct cttgcttaaa aggtaaaggc agggccagtg atgcagcaag 180
aatcgtgggtt ctgacctgga gatcgttgct aattatgtca agagattgga agtacttctg 240
gatcaggctt gtcttgtata tgcttattgc tgtgtcaatt ggcacgatat ttaccgatat 300
tggccattca ctatcatctg taatggtgag gatttctgcg atatttgcatt ttgtatcngt 360
tgtcgtcctt ctaagtgtt ctggagtacc cgctcagatc gatgaagtca agattttattc 420
ccacg 425

<210> 32013
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-G4

<400> 32013

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tcattaaatc atcaataagc acccaggaat ttgtggtaga ggtacctgta ccagttcagt 180
gtctgaaaac tgcgggtaac aaacctttgt gtcccgata agtgatgtgt gtgtgtgtgt 240
gtgtgagtga acagtgcatt tagtaagaga attgttgcgt gggttggtac ttggattctt 300

cgctcttttag acaagaagta ccatggcatc aaaaaataaa atgtttgatt aactt 355

<210> 32014
<211> 459
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-051-Q1-K1-G5

<400> 32014

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gaagagcgcc gccagcacgg ccgccgacag gcgcgccgcc tgcaactgcc tcaagaacgc 120
cgccaggggc gtcagcggcc tcaacgccgg caacgccgcc agcatcccct ccaagtgcgg 180
cgtcagcatc ccctacacca tcagcacctt caccgactgc tccagggtga actaaaacct 240
agaccacgcy cgacgacggc cgntgatcg atcgaccaac cattccgncg tcgccgncgg 300
ccggatcatc gatcgtcgtc atgatgatat ctatcaatct acgctgatg atcgatggct 360
acttgtctac tgctatgtac tactaaataa aatctctccg tgtgtgcacg tacgctngca 420
tgtgcatggt agcatgtatg tacgacgtcg tncatgtat 459

<210> 32015
<211> 447
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-051-Q1-K1-G6

<400> 32015

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agctagcaga gcggcggcag gcacctccct cctcaaggaa catggcccgc acgcagcagt 120
tggcagtagt ggcgaccgcc gtggtggcct tgggtgctgt ggcggcggcg acctcggagg 180
cggccatcag ctgcggggcag gtggcgtcgg ccatcgcgcc ctgcatctcc tacgcgcgcy 240
gccagggctc ggggcccctcc gccggctgct gcagcggcgt caggagcctc aacaacgccg 300
nccgaccac cgccgaccgc cgcgccgnct gcaactgcct caagaacgcc gncgccggcg 360
tcagcggcct taacgccgggt aacgccgnca gcaccccctc caagtgcggc gtcagcatcc 420

cctacaccat cagcaccttc accgact

447

<210> 32016
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-E9

<400> 32016

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ccaaacaacg ccttaaaata gatgtttcga cattattatt ttcttgcttg caatccaggc 180
tctaacaact tctcgggtctt gtttaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaaa aaaaaaaaaa aaaaaactaa caaaaaaaaa aaaaaaaaaa aaaaaaaaat 300
aaaaaaaaat aaaggactgt ctttaaaaa 329

<210> 32017
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-C7

<400> 32017

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gccatggcga gcagcgctag ccaggcgagc ctctgctcc agaagcagct caaggatctt 120
gcgaagaacc cagtggatgg gttctccgcc gggctttag acgacagcaa catcttcgag 180
tggcagggtca ccatcatcgg accgcctgac accctatatg atggaggcta cttcaatgca 240
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atgtggcatc cgaatgttta tcctgatgga cgtgtttgca tttctattct tcatccacct 360
ggtgaagatc ccaatgggta tgagcttgca agcgaacgat ggacaccaat gcacacggtt 420
gaaagtatag gtctgagcat catttcgatg ctc 453

<210> 32018
<211> 458

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-051-Q1-K1-C8
 <400> 32018
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 aagtgtgagt tagttgacat actattcact tgtacctcgt gcgatttctt atacgtgtac 180
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 atgtggtttt ggtaaaaaat aaaatttttt ttatttttta tttttttttt ttttattttt 420
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<210> 32019
 <211> 404
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-051-Q1-K1-C9
 <400> 32019
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 taatatgtac ccttcttctg ctttactcgg acagaataag gatgagtcaa ttgcttcctt 120
 gccaatgat gatttgattg agaaggctga tggctttgct ggtgtctttc cagaacacaa 180
 gtatgagatc gtgaaacgct tgcaagcaag aaaacatata tgtggcatga ctggggatgg 240
 tgtaaatgat gcaccagctt tgaagaaggc tgatattggt attgcagtag cagattctac 300
 tgacgcagct cgtagtgctt ctgacattgt cctaactgaa cctggcctta gtgtgattat 360
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<210> 32020
 <211> 202
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-051-Q1-K1-D1

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 aaaaaaaaaa aaaaaaaaaa aggggggcct ttttaaaaga tccaaattta atttcctttt 180
 aatttaaatt taaaactttt tt 202

<210> 32021
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-D10

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 cacggccttg ccgcgttcga ggatgatggg gcgaaatccc atctgcgca ggatcagccc 360
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<210> 32022
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-D11

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 gcgcaccgtg cccgggtggt cctaccgct cgccttcgcc gtgggggact cgggcgatgg 180
 ctgcgcgggc tccatggccg ccgaggccta cgcggcgcgc gccacggtca aggtgcccta 240
 ccagtccagg ggcaccggag gatacaagcg cgccgtgctg gacttcacgg ccatcgccaa 300

ccgcacccgc gtcgtcttcc agagcacctt ctaccacatg aagccccgacg gcacgctctg 360
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<210> 32023
 <211> 384
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-D12

<400> 32023

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 aaaaaaaaaa aaaagggccg gcctttttta aggaccaaatt tttacttccc cttacttgca 180
 acatatattat tctttttttg tgtcccttaa ttttaatttaa ttgcccttct tttaaaaacg 240
 tttcatttgg aaaaaccttg cctttaccaa attaaatcgc tttgcaaaaa ttcccttttt 300
 cccaatttgg cttattacca aataggccag caccttttgc cttttcaaac atttccccac 360
 cctaaatggc aatttgaacc ccct 384

<210> 32024
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-D4

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 ttttgactgt gtgtaagtct attgttattg atcattgata ccctgtcgac tgcctctacc 300
 ctttttgtaa aatatttttaa tttatttttt tatttttctt gtatttttct tttcttttgt 360
 ttttctttat tttagtgtt atatttttat ttttttttta ttagtttt 408

<210> 32025
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-D6

<400> 32025

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gacgacatca tgatccgtcc attttgtact tccatagctt tgaatcttgt tcgccagggt 180
cttgagccta ttgtaagttt gagttggctt ctctcccctt atcatggtga ctctcccaag 240
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cttgaaggta ttccatattt gctttgtatt gtccaagcca cagactttgt tgaattcatt 360
ccttcatagg gatgcttaca aaacaagtgt atcttgtgca attttatgaa tttgcttaat 420
aatcaataca ggattatcag tactattcaa atgcatt 457

<210> 32026
<211> 244
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-D8

<400> 32026

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agaatggagg gagttcggac aagaatatta cagaattcat cgctaagtat tctttaagtt 120
aattttcaaa gatttcgtaa aaaatataat tttcaaagg tttttttttt aaaaaaaaaa 180
aaataaaaaa aaaaaaaaaa taaaaaaaaa aaatatattaa acttttttaa gaattccaat 240
ttta 244

<210> 32027
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-D9

<400> 32027

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 ctgctgtgcg cggcggcggc catggccacg gcgcagcagg cctccggcgt gcgcgcgacc 180
 tacaacttct acaacccgca gcagaacaac tgggacctca acgccgtgag cgcgtactgc 240
 gcgacgtggg acgccagcaa gccgctgtcg tggcgcatga agtacggctg gacggccttc 300
 tgcgggcccc ccggccccac cggccaggcg gcgtgcgggc agtgtctcct ggtgaccaac 360
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<210> 32028

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-E12

<400> 32028

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 gccatggtgg gcggcggagg gcattcgtcg atggaccacc ctggcgccaa ggacgatgga 180
 gacggggaag aaagccagta cttctcggac gcggaggacc ggtcgtggcc gtcgcactcg 240
 cgccacgact ccaccgcta cgaggactac gtctcgtgt gcgtgtccgc ccgcgcgagc 300
 tccgtcgacg ccgacgccga tgccgacggc gaggccgtca gacaacactg catgaagtcg 360
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<210> 32029

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-E7

<400> 32029

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 gaggaggagg acgcctcagc cgccgccgcc gcgggggagg aggaggacac gggcgcccag 180

gtgggtccca tegtgcggct tgaggaggta gccgtcacca cgggcgagga ggacgaggac 240
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gaacggggca cgggcgctgt caagcttctc aagcacaagc agaccgtcaa ggtccgccta 360
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<210> 32030
<211> 439
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 32030

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gcaagcttat tcccacagct cgcgcagacg gagcacggcg tagccggcgc ctcccatggc 180
gcgccgagct tcctgttctg caatggcgca ggtgcagcca cggcagactc agcctcgcta 240
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aggaaggccc ggacgaagcc cagggaagac agcgccagcg ccagcgccag cttcagcttc 360
agctctgcgc actccaagga ctcgagctcg aagggaagca ccaagaatag gggagggaaa 420
agaggcagaa gcagcaagg 439

<210> 32031
<211> 253
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-A2

<400> 32031

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tttcgccccg atctgaccat ctaagccttg ccttttaacc aaaaataagg tcctgtcccc 180
tctttctacc caccgaaata agtaaataac cttaaaagta ttggtatttt acttgctccc 240

ggaagcttcc act

253

<210> 32032
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-A3

<400> 32032

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gaagaagcca agaggggtgat cctgtgacgac aagcccgacg ccgacatcgt cgtgctgccc 180
gtcggcacgc cggtgaccat ggatttccgc cccaaccgcg tccgcatctt cgtcgacacc 240
gtcgcggagg caccacacat cggtgaggt ttaaacttac aaaatgaatg actcggacat 300
gccatgcgta cctgtccgtc gccgaataat ggatgtgtgt gtgcttcgtt ccaatatatt 360
gctagtaaaa ataatggcat cgtcgggatg catgaataaa atgtatcaga atgttcaatc 420
tttcacgatt g 431

<210> 32033
<211> 85
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-A4

<400> 32033

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ttggtggcgg atatgcagcc cctct 85

<210> 32034
<211> 463
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-A6

<400> 32034

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 gaaaggaatc gatctaaagt attctggtga tttcccctgt ataaatacag ggaaggcaaa 180
 gcgccaaca tattttccaa tcgagctatg ctgcttggtt ccgcttcaaa gatacaccaa 240
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 aaggatgacc gttctaaatg atgcaactgca acgcagtaac tacgattctg accccatggt 360
 gagggcatgt ggtgtttcag ttgtccaaa atttaccxaa gttgaaggaa ggatccttca 420
 agcccccaaa gctgaagccg gcaatggtga tgatatcttt tca 463

<210> 32035
 <211> 345
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-A7

<400> 32035

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 accatgcgca agaccgtggg caagcccaag gtggcggcgt ccggcagccc ctggtacggc 180
 cccgaccgcg tcaagtacct cgcccccttc tccggcgagc ccccagagta cctcaccggc 240
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 gccagaacc gcgagctgga ggtgatccac tcccgtggg ccatg 345

<210> 32036
 <211> 441
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-051-Q1-K1-B1

<400> 32036

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 acgttgtctc gccgccaccg acccctgcgg cccagccgt gggcgctca gacccgcccc 180
 tgcagcctgc tgctgacagc gcctcaacgg agaaggtgtc tgctccggcg ccggaggtaa 240

ggtccccggg attcaggctt cttggagagg acacttccgt gcacaaatcc cttgggggcg 300
 gtaaaactgc tgacgttctg ttatggaaag acaagaaaac ttctgcttgt gtaatangcg 360
 gcgcaactgt catctgggtt ctgttcgaag tgcttgatta ccaccttctg accctgatat 420
 cccatgtact tgatggtgtg c 441

<210> 32037
 <211> 400
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-051-Q1-K1-B10
 <400> 32037

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 ctcaggcaaa gagggctcgc atcctcgcct gctccagaag gttgaagcac aggggccccg 180
 actggtcggg cctttaccag cacgagggca acttcctggc gcagcagcgg ctgcccgtcg 240
 tctccccgct gtccggcgac cagccgctgt tcaacgagga ccgcaccgtc gtggtggtgg 300
 ccaatggaga gatctacaac cacaagaacg tccggaagca gttcaccggc acacacaact 360
 tcagcacggg cagtgactgc gaggtcatca tgcccctgta 400

<210> 32038
 <211> 399
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-051-Q1-K1-B11
 <400> 32038

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 gaacgagagg ctccgggaga gggccagcgc gtcgccgcg gagaacctcg cgctgctcca 180
 gaacctgtcg tccaggacgg cgcccggtcc agagccagga gcgggagctg cgtgaggttg 240
 ctgcttcgat cctctgcctg cctgcctgct gaacatgaag tagcgagctc gcgtcaccct 300
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399

<210> 32039
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-B2

<400> 32039

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gtgctgagtt ctcatataat aatagttaac atgccagtct gaagatgtca ccgttcgaga 120
ctctatatga caggaaatgc agaactcctc tatttttggga ccagactaga ggaagacagt 180
tctttggacc tgaacttatt caagaagcag aaaaacaagt tcgtataatt cgagagaatt 240
ggaaggtagc tcagaccaag caaaagaagc tacgctgata atagaagaag accactggag 300
tttgaagaaa gtgatcatgt gtacctcaaa gtgtcaccac ttcgtggaat gaggagattc 360
aatgttaagg gcaaattgtc cctcgccttc attggaccat tctgagtttt ttaggcaatt 420
ggagagatgg cataccaact cgagttacct gctagtcta 459

<210> 32040
<211> 307
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-B7

<400> 32040

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aaaaaaaaaa aaaggctctc cttttcaaag attcaaactt tacttcccct ttcttccaac 180
ttttaaatte ttttaaaggt tcacctaatt aaattttatg gcccgttttt taaaaacctt 240
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actttttt 307

<210> 32041
<211> 380

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-051-Q1-K1-B9
 <400> 32041
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 gaagttccta tatgaatggg aaatgcccta cctttgaccg atatgccctt aggcacggcc 120
 atacataaca tagaaatcac acgtggaagg ggtgggcaat tagctagagc agcacgtgct 180
 gtatcgaaac tgattgcaaa agagggtaaa ttggccactt taagattacc atctggggag 240
 gtccgtttgg tatcccaata ctgcttagca acagtcggac aagtgggtac tgttggtgtg 300
 aaccaatata gtttgggtag agccggatct aagtgttggc taggtaaacg cctcgtagta 360
 agaggggtag ttatgaaccc 380

<210> 32042
 <211> 215
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-051-Q1-K1-C10
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 aattgcttcc ttgccaatata ataaccaaat taacatcccc ttacatctca actcatatct 180
 ttccataact caccocctaat atcatttaac tcccc 215

<210> 32043
 <211> 255
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-051-Q1-K1-C11
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 gtgctccaat ggcgcgcttc cagctcgcag ccgtggccat ggccatgctc ttcgccgcgg 120
 cggcagcgca ggccccgacc gccaccccgga cgccgggtcc caaggcgtcc ccaccgccgg 180

cgactccgac gccgacccgc tcgccggcgt ctccgccgt gccgcccacg accatgctg 240
ctccagatca cgcgc 255

<210> 32044
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-C12

<400> 32044

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gccatggcga ccatagccac gatggcgctg ctgaagcccg ccgccaaggc cgcggcgcg 180
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aaggctgcgg tgtccgcgtc cgcgtcgctc acgctggcgg gcgccttctt cgcggcgctg 300
gcgtcgtcgc ccgacgtgc gctggcagac gtcgcgccgg cggacgccgg cggcgacagc 360
cgcggccagc tgctgctcgt cgtggtggcg cccgcca 397

<210> 32045
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-C2

<400> 32045

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ttgacatact acctccagaa aagttaagcc cccactaaa gcgacctgga aaaggagtca 180
tcaaaactct gttccgctcg aggcctccg atgaaatgtc tgaagatcag atggacagag 240
gatgtttaga acctgatgtc gtggaggaaa tatacgagga gggctctgca atgcttgctc 300
gaaggttgaa tataaattac ccatctggaa atatgttcaa gctgcatgat tgtgctgtct 360
gccaatgga gatgaaacct ggtgagggca cctctgttca tggtaacatg cccaagcatt 420
c 421

<210> 32046
 <211> 399
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-051-Q1-K1-A10

<400> 32046

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 gccccgccc cgcagccgcc ctctgccacg ctcgacttct ggaaggcca gctccccgcc 240
 cggctccgcg ccccgctcgg ctccgccgcc gccgtgcagc acggggagga ggacgaggtc 300
 tccgtgcgag gtggcaggtc gtcggaggcg gngagcgagg agctggcggg ggggaagcgt 360
 gacctggcga acctctggag gctggtggag ggcattggac 399

<210> 32047
 <211> 298
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-051-Q1-K1-C3

<400> 32047

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 aaaaaaaaaa aggggcgccc tttttaaggg ttccaagttt atttaccctt ccttccaact 180
 taaaaccttt tttttagggc ccccaaattt caatccattg cccgtctttt taaaactttt 240
 atactggaaa aaccttgggt ttcccact taatcccttt gaaaaaaatc cccttttt 298

<210> 32048
 <211> 342
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-051-Q1-K1-C4

<400> 32048

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agcatgctga gccaccgcgg cgacagcggg tgccagggcg ccttctacac ctacgacgcc 180
ttcatcgagg ccgccagcaa gttccccggc ttcggcacca ccggcgacga gcagacgcgc 240
aagcgggagc tcgccgcctt cttcggccag acgtcccacg aaaccaccgg tggatgggcg 300
actgcttcgg atggaccgtt tgcctgtgga tactgccggg tg 342

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<210> 32049
 <211> 209
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-F6

<400> 32049

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acaataagac tgggtacaacg atcccaaaaag acaatcaaat ccccgttttc taacaacgga 180
attactgaaa taaccttaaa actaccaa 209

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<210> 32050
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-F7

<400> 32050

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atcggccaag ccggtatcca ggtcggaaac gcgtgctggg agctttactg cctcgagcat 180
ggcattcagg ctgatggtca gatgcccggg gacaagacca ttgggggtgg tgatgatgct 240
ttcaacacct tcttcagtga gactggtgct gggaagcacg tccctcgtgc tgtttttgtt 300
gaccttgaac caactgtcat cgatgagggtg aggactggca cctaccgaca gctctttcac 360

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cctgagcagc ttatc

375

<210> 32051
<211> 51
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-F8

<400> 32051

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51

<210> 32052
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-F9

<400> 32052

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ccaggggttg ggtccccttc tgacgggtca gtggaatctt tatgcccaa atcctgattc 180

gagtaatcat ttatttggtta cactcaagg agcgggaact gccattctga cccttcttgg 240

gggattccat ccacaaacac aaagtgtgtg gctgaccgat attgctcatc atcatttagc 300

tattgcattt atttttctca ttgccgggtca tatgtatcga actaacttcg gaattgggca 360

cagtatcaaa gatcttttag aagcacatac tcctccgggg ggtcgat 407

<210> 32053
<211> 445
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-050-Q1-K1-G1

<400> 32053

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aacctcccg agagagagag agagaggagg aggccttcgc cgccgccgtt gccgtcggcc 180

gagacgccag gatgttcggg taccagaagg gcctcgatgt cgaggcgggg acatcgggcg 240
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 gctgggcgct catccgcaag atctacgtca ttctctccct ccagctgctc ctcaccgncg 360
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<210> 32054
 <211> 343
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-G12

<400> 32054

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 aaaacctcat gcattcgaaa aaaatgcctc taccaaactt attaatcttt aatcacatcc 240
 tcattttctc atttgcccaa atatcaaaca tcaccccatc aatctgcctt cctaacaatt 300
 ccctactctc cattgtgcat agaaccacc ctttagttct cca 343

<210> 32055
 <211> 168
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-050-Q1-K1-G2

<400> 32055

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 accgggcaac aacgggcacg cgaccgccac caacagcaag agcgacaa 168

<210> 32056
 <211> 442
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-050-Q1-K1-G4

<400> 32056

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cctttgggtc ggtatttcag tacctttggt ttttggtgga agcttccttg gcttcaagaa 360
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<210> 32057

<211> 420

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-050-Q1-K1-G6

<400> 32057

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atcgacccca tctgtgccct ccaggctctg atggaggggtc ttcaggctct tcccttgga 360
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<210> 32058

<211> 406

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-050-Q1-K1-G8

<400> 32058

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cgacgtgggc gcaggaccac atccactaca tcgacggcgg gcgggaggtg cagctgtacc 240
tggaacaagtc caccggcacg ggcttncaga cgcggggctc ctacctcttc ggccacttca 300
gcatgcacat gaagctcgtc ggcggcgact cctggggcac cgtcacggcc ttctacctgt 360
cgtcgcagaa cttcgagcac gacgagatcg acttcgagtt cctggg 406

<210> 32059
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-G9

<400> 32059

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ttgacaaaa agttgttaat gccctcatga caacctagtc tggctctatt catgttggat 120
aattgtttgt ggttcgtcca ttaaattcca catttcaagg gagattgttt atcattattc 180
ccaagctgtc atagatatca ttatcgcatg gtctgtaaca tgaccataat cttctaacat 240
gactctggtt tttttatcat actactatct aaccttttcg tcatttattt cctatatatg 300
gttactctat atccttagtc taatta 326

<210> 32060
<211> 326
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-050-Q1-K1-H1

<400> 32060

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 gcgcgagnga aggggngggg caccagggc cacaaggcc cgaaccacaa cgcgcgccgc 180
 gngaaacggc aacaagacga acagcaaaca acacatgaac cggagacggg gagcggagag 240
 acgcncgcgn cacaacaaca cacacagacc ggcagcaaaa agcaacggaa cgcgccggac 300
 gcacncaaag cacggaagaa agaggc 326

<210> 32061
 <211> 339
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-050-Q1-K1-H10

<400> 32061
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 agttancttt acttagtggt ttgtatatgg gccatggcat ctgctaattgt gtactaccgt 120
 tgcttcgtca ccgggcttgc ctggggccacc agcaaccatt cgctcgataa tgccttcgcc 180
 tcctacagct agatcctcta ctccaacgct atcaccaacc acgagacagc gaggtctcgc 240
 cgcttcgtct tcgttacctt ctctcgac aactccatgc tcgacgctat ctataacatg 300
 aacggcaagg atctcaacct cctaaccatc accgctaac 339

<210> 32062
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-H11

<400> 32062
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 cgacgcggct gttccttggc gcgctcctcc tctcgtccc cgccgcgctc ctctcctgc 120
 tccgcgcgcg gggcaggcgc cgctcccc cgggcccgcc gtccctgccg ctgctcggca 180
 gcgtggtgtg gctcaccaac tcgcccgcg agatcgagcc cctgctgcgg cgctcttcg 240
 agcgttacgg ccccgctgtg gcgctccgcg tcggggcgcg cttgtccgtc ttcgtcgcgg 300
 accgccgcat cgcgacagag gcgctcgttg accgcggcgc gacgctggcg gaccggccgg 360

cgctcgcgtc ggtcaagttc ctcgacgaga gcgacaacac catcac

406

<210> 32063

<211> 404

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-050-Q1-K1-H7

<400> 32063

tgtgaagnta cttgatcaag aaatctccaa gtttcaaggc cagtcacctg attatgatgg 60

actatgtgag aaaacacatc agttctctgc attagtcgat aaagttctgt caaacgttga 120

tgttctaaat gatattgtca tagcactgtc tgttatcttg tcagaaacta gccagattaa 180

gttcacattg ttgagagaca atagcaatga agcagaaagt aataacttag attgtgttga 240

taaagtgact ctacttgaaa ataagggtgca gcttgagcca gtaaaagaca atgttcctgg 300

tatctgcca ctgttgctc attcatcttc tgatcctgag tttgaggggc ctgctgatgc 360

tagattcgat gttaagactg cagtgaaggt gtactcgccg gagg 404

<210> 32064

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-050-Q1-K1-F5

<400> 32064

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gactgcagat gatgttggtg ctcttcttgc tgtagactgt acgcctatgg atgacaatgg 120

ccgccagggt gatttggtga cagaatttgc taataatggg aataagataa catgtgatcc 180

agagatgcag agtcatatcg atgcatgtat ttctaaaggg agagctgaat ttgaagtttt 240

tgtcctgcag gcttattctc ctgaggaatg ggaactggct acattggtgc tcacacgacc 300

taattatcag attaagttca aacagaccgg taatgttgta attgacgaga agtactcaca 360

aagtctacag acaaaaattc ctaatgggcg cacaactcag ttgggtttta taactgcggg 420

tacaactctt ccatttaaca ca 442

<210> 32065
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-H9

<400> 32065

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ggacgcagca ctcccttttg aggatcatca tcctggccat gttccagatc atgctgatcc 120
accgcgcgca cagcagggtgc cagggcgccct tctacaccta cgacgtcttc atcgacgcca 180
ccagcaagtt cctcagcttc tgcaccaccg gcgacgagca gactctcagg cgggagctcg 240
acggcttctt cggccagacg tcccacgaaa ccaccggctg atggggccact gctccggatg 300
gaccgtttga ctggggatac tgccctggtga acgaacagaa acagactgac ccaccctact 360
atggacgagg acccatacag ctaactcata agtacaacta 400

<210> 32066
<211> 303
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-A1

<400> 32066

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tcagaaatgc gtcaagagag ttgagaatga tgatactggt cacaaacact gcactgggca 120
atactttgat tactgggtcat gcatcgacaa atgtgtagca tcaaagctct ttaagaagct 180
caaatgattt gtgcgatgtg atgcgacttc tgacaaagtg aatcgaattt gcatacctta 240
cacctttgga aagtgtatga gctcgtacat cttggaataa aacatcaatt cttctttgct 300
aaa 303

<210> 32067
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-D12

<400> 32067

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gggatttgag caccctcgaca tacaaaaaga agcgtccgca actgctcaag tactaccagg 120
gcgtgattga caacatgtac aaaagtgtga agtgaactca ctctacagta cacatcccgga 180
tgaagattcc caacgctgaa tcttgaatga gcagccagaa gttctgctgc gtatatgctc 240
gtagtttgca tgcgagaatt ctctctgtat cagtttttca gaaacgattt gccttgggca 300
tatatatata gcaaaaccgg ctatgtggcc agcagccaag tggagacacc gtttcaaatt 360
gattgaacta tggcgaatac tgattgacag aagggttagg gcatgct 407

<210> 32068

<211> 415

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-050-Q1-K1-D3

<400> 32068

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agaagcgggc tgtccccgct gcacatgaga cggccgtgca catcgtgtac gttgaccgcc 120
ccgaggacgc cgaccctgag gagttccaca tccggaccct caccctcgct ctcggcagct 180
aacagaaggc cagggacgca ntgctctacc actacaataa cgcctgcagc ggcttctccg 240
cgaagctcac cccccagcag gtcaaggatc tcaaggagca accaggtgtt ctccagggtg 300
tgccgagcca gacttaccag ctacatggct ctgggtctgg cacttaccag ggcacgacac 360
acaccttggg ccttatgtga aggcgtttga gaatcaagaa gattgtgttt aagta 415

<210> 32069

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-D4

<400> 32069

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gaaaaaagaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aagggcgcaa 180
 caaaaaaaag accaaaagaa aaaacaaaga tataccacaa aatgaaagca aaaaaggaga 240
 gaacaaaaaa aattacactg ccagaaatta aaaaaatcaa aaaaaaaaaa aacacgcgac 300
 atacaaaaca aaaaccagac ggaaaaaaat aaaaaaatac aaacagg 347

<210> 32070
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-D6

<400> 32070

caagaacaac atttcgggga caataccttc tgcccttgga aagttgaagt cccttgtatg 60
 cttgcgtctc aatggcaatc atttgactgg gcccatccca agggaaactcg ctggaatatc 120
 tagtctcaaa gttgttgatg tttcaagtaa tgatttgtgc gggacgattc ccacgtctgg 180
 accatttgag catattcctc tgagcaactt tgagaagaac ccgcgcttgg aaggtccaga 240
 gctacaaggc ctggccatat acgacaccaa ctgctagagg caccacgaag aaaagaactg 300
 ctagaaagta acgagcgaac aaggttacca gaaattgggc gatatagatt tactaggtct 360
 ggatctgtaa tccttctctg atagctctta ttcgtaactc gctgtctgca cgaaaagtgg 420
 tgtgt 425

<210> 32071
 <211> 260
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-050-Q1-K1-D7

<400> 32071

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 gcaaacgcga agacgaaaag agagaagcaa cggaaccaca cggacaaggc cgaagaacga 120
 acgcggcacg ggcagcaana gggcaaaaca aaccnngcgc acgacggncc aaacacaacg 180
 cacgaaccga acacgggggc gaacagacca acacaggggg aagaccgcag cacaacgaca 240

ggaacagccg acagccaagg

260

<210> 32072
<211> 51
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-D8

<400> 32072

cccacgcgtg cgattactcg ctccacgtct caccgcaaca actcaccacc a

51

<210> 32073
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-D9

<400> 32073

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aattgctagc tatggttatg ccgttatgaa ggaagaaagt gtatgcatgc atggtagggt 120
aaagagtggg taattaatat cgttgatcaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaga aaaaagaaaa 240
aaagctaatt acttgaaaaa aaaaaaaaaa caaaaagggtg cgaccttttt aaaattaaat 300
gctgctggac agacaaatgg cggggccgta aatttttata gggttaccaa attttaaaa 359

<210> 32074
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-E10

<400> 32074

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ctagccttta gccctagcta gtagctagcc actcggtcgt gtagtcatca accttatgat 120
cgtcacccat ggccactgcc gacgtccaga ccccgaccgt cgtggccacc gaggaagcgc 180
cggtggtgga gaccccggtc ccgtccgccc tcgtgcccta ggaggctgcc ccctccgctc 240

aggccaacgt ggacgagcca gctgccccgg cggaaaccga gccagctgcc gtcgctgagc 300
ccgaggctgc ccccgtagga gaggaggaag agacgcaaaa ggaggaagag acagctaac 359

<210> 32075
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-E11

<400> 32075

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cgactgatcc aatagcacgg gcccttggtg cgctaagcc ataactatgc tcctctactc 120
cctcgagcat aggcaccaga tgatagctat gattcttact tatatgcatt caaccataat 180
ccgtcacact ataactctgc tccactagct tttcaacca tcgcgattac cacttgatg 240
aatcaacagt tcattctata ctatgctgaa ttactaatct acagctcact cattaattca 300
gtcaaactat cttttctcac gaccgtctaa actcatttta cttctcatat cgcccggtta 360
acaatcctac acttaactaa ttc 383

<210> 32076
<211> 244
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-E12

<400> 32076

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cgaccattgg tttgttagca tggccccgag taacatcgtc gttcagagca gcagcactcc 120
gccggttgcc ggccgctacc aggagtgcg gccgtctgta tggggagatt tcttcgtcac 180
ctatgccact ccacgtctca ctcgcatcag agcagcggat gactagagat agccctgctg 240
ctca 244

<210> 32077
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-E4

<400> 32077

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gaaggacatt catcattggg cccgaggcct gctagttctc tgccatggac tacacttacc 120
ctctgtcgat gccgctccac gacgcagatg agctcaccaa gtggtccctc taccgctcgg 180
tcatcgccga gttcatctcc acgctgctct tactctacat caccgtggac accgtcatcg 240
tatacaagca ccacacggac acggcctctt aaggccccga cacggcgtac agtagcgtga 300
gcatacacgg catcatgtgg gccttcagcg gcatgatctt catcctcagc tactgcaccg 360
tcggcc 366

<210> 32078

<211> 194

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-E6

<400> 32078

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tgcagcatat gatgtagctg ctaggccaga tgtacactga cctactatgg atctcgatgt 120
acgccgagga gatttggata caggatgagc gtactctgac gaagaaaata acatggaatc 180
cagagatgca tagt 194

<210> 32079

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-E9

<400> 32079

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catcaactaa atatcctctt tctattgccg cattcaaac ttaggacttt ctattcaata 120
atctcttaaa tatattaccc tatccccaag gcttgggtcc ccttctgacc attcaatcca 180
atctttattc ccaaaatcct gattccacta atcatttatt tggtaccact caaggaactg 240

gaactaccat tctgaccctt cttccgggat tccatccaca aacacaaact ttgttactta 300
cctatatttc tcatcatcat ttagctatctt catttatttt tctcattgcc attcatatat 360
atccaactaa cttcacaatt ttgcacatta ttaaacaatct ttttataatc acataactcc 419

<210> 32080
<211> 305
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-050-Q1-K1-F1

<400> 32080

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cggggtacgg cgcgtccctt agcggcgag cgaacgacct gctgccaag tacggcctcc 120
cgaaggggct catcccgag tccgtcacct cctacagctt cgacgaggcc acgggagcct 180
tcgagatcca cctgaccagc acctgctacg ttcacttcgg ctccacctc gtctactacg 240
agaggacat aaccggcaag ctctccaggg gcgccatctc ggacctctcc ggcgtccagg 300
ccaag 305

<210> 32081
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-F10

<400> 32081

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cggcatgccc cagcactggg ccgaccgcca cgccactgag aaccggatgc gcctccacgc 120
cctacgctg atccgcgaga ggaagatgga tggcgtagtt gttttcaccg acgacagcaa 180
tgttcatagc atggagctgt tcgatgaggt gcacaaggct cagtggatgg gtgctgtatc 240
cgtcggaaatc cttgcgcata ctggcacggc agaccaacta cggctcactg aggaggacaa 300
gcagaatatg cctcttccag tccaggggcc tgcttgcaac tcctcagggc atctgattgg 360
atggcacacg ttcaactcat tgcccttctc tgggaagacg gccacagt 408

<210> 32082
 <211> 386
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-050-Q1-K1-D11

 <400> 32082

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 actgcagcat atatcctggc ctatttgctc gctgggaggc caattatgcc acgacgaaca 180
 caggttgaac agctacataa aatttttaat ttgtattgct ccacaacaga ataattattgg 240
 aaaaagtcta atctacctca tgctacaata tttaatcctc agcaaccgta cagaaagcga 300
 ataacatata cttttaacga ttttccacaa tcaacactta cattgatcta gacactactt 360
 gcaattgatc catcatatcg cttaac 386

<210> 32083
 <211> 139
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-050-Q1-K1-F11

 <400> 32083

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 cgacataccc gacaactaaa cacaacaac acaccactaa aaaaccaa at acacctacac 120
 aactaacac ataatccac 139

<210> 32084
 <211> 390
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-050-Q1-K1-F3

 <400> 32084

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 cgaaggacat cgaagcatcg gggcccagg ccggcgagtt ctcggccaag gactacaccg 120

accctccgcc ggcgccgctc gtcgacgagg atgagctcac caagtgggtcc ctctaccgag 180
 cgggtcatcgc cgagttcatc gccacgctgc tcttctctta catcacgtg gccaccgtca 240
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 tgggcatcct cggcatcgcg tgggccttcg gcggcatgat cttcatcctc gtctactgca 360
 ccgncggcat ctcaagtggg cacatcaacc 390

<210> 32085
 <211> 213
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-F4

<400> 32085

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 ggacagaggg ttcccagctg ggttgctcaga aatgctggta cagagccctg ggaccgactt 120
 ataccttctc tctgctcttc cagccacac gtgagctcaa cgctacgtta atgggtccgat 180
 agctcaaggt ggtgttactg tacacattag ttg 213

<210> 32086
 <211> 77
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-A12

<400> 32086

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<210> 32087
 <211> 369
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-050-Q1-K1-A2

<400> 32087

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 agcagnacac caggcgacga agcaagcggc acgaggagge ggacaaggga gnggncggcg 180
 cgccgccggc gagagccaga gaaacgacca agagcgcgcc cacagagacg cgacgacacc 240
 cgcgccagcc gagacgcaa gagcnacagc cggccgaaca gagcacggcg acgcgcaagc 300
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 caccagcca 369

<210> 32088
 <211> 415
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3068-050-Q1-K1-A4
 <400> 32088

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 aacaaggggtg gctgaactat agaggccctt gattacacag gccgatccgt gtgtctggtt 120
 ggatgcaccg ggggagaaac tgcattcaca aatcctcaaa gcacattctg catgtctcac 180
 tattctgcat gaccaggctc aacgggtgca agaaacaaca gctagccaga cccgttagaa 240
 acggacgctc ggcgcgtagc cacgcgtgca ggcccggcag agagccaagc ccgctagaaa 300
 cggacgcacg gcgcgaacgc gcaacttcaa gcccggtgca gccacaccg tacggaccag 360
 gctggcacag tgtatgaaac cagaaatgcg gtatgtgact gacatggaga tgcaa 415

<210> 32089
 <211> 462
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-050-Q1-K1-A5
 <400> 32089

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 gcgcggatct gaacgctgcg ctccgtgtcg tcgctcgaat ccgccatgaa gggggccaaa 180

tccaagggcg ccgccaaggc cgatgccaaag ctggcggtga agagcaaggg ggcggagaag 240
 cccgccaagg gcaggaaggg gaaggccggc aaggacccca acaagcctaa gagggctccc 300
 agcgctttct tcgggttcat ggaggaattt cgcaaggagt tcaaggagaa gaaccctaag 360
 aacaagtctg tcgctgcggt gggaaaagct gctggcgaca ggtggaaatc cctgagcgag 420
 tcggacaagg ctccctatgg agccaaggct aacaagctca ag 462

<210> 32090
 <211> 455
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-A7

<400> 32090

cccacgcgtc cgcggacgcg tccgcccact cgtccgcac aacacttcca atgtctcata 60
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 gacaacgaca gctattttgc agaacgcaat caccatatgc aatgccacat caattttcac 180
 attgtcctgg atcgggtctcc tttttctagt ttggatttgt tctgctagct aagtagctct 240
 cttattcttc cagttcatag gtgtgctatt ccctttttcc tttttttgtc aagtgtctct 300
 cattgattca aggtcacaca ggtttgattc tgaagcttga ttttttttgt gtatcaactc 360
 tgctgtctgt gttcttcttt ggttttgaga tgagttgcgg tttgaggag cgataagtat 420
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<210> 32091
 <211> 204
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-A9

<400> 32091

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 gccatcttgg caaatcgcc atttctgcca ctttagatgc tctttaagct gcaacatcat 120
 ttccataaca tgaccaatca cacctacctt aaaactctct accatattat caccttcttt 180
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<210> 32092
 <211> 376
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-050-Q1-K1-B2

 <400> 32092

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 gcgccatgca tggcctaaga agctttgtgc acgacaagac tcctgagatc atgcctgcag 120
 ttaacaagtt cttcactgac cctaagtga gcatgttgat tggcatacta ctactactac 180
 ttgctactgg ggattttaca ctttgctggc aactcaatat gttggggaca tccatgacct 240
 ctaaaagtac tttgagcgtc tggatgatgac ttggtatatg tatgatggtg gatgagtttg 300
 atcgtccatg cttgatgttc atattcatct gtcactctga tttgccgcac ttcagtata 360
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<210> 32093
 <211> 341
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-050-Q1-K1-B3

 <400> 32093

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 acgggcaaaa agtccttcac tgaccctaag tgaagcacgc cgactggcat agtactacta 180
 ctacgtgcta ctgaggattt cacacaatgc tggcaactca agctgttggc gacatccatc 240
 agctgtaaaa gatctttcag cgctagatga tgactcgaat tacgtactat aggaacacga 300
 aacagagcct acattcctca cggacatctt caagtgccat c 341

<210> 32094
 <211> 338
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-B6

<400> 32094

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gatccgtgcg acgcggggct ggatctcagt ggatcgtggc agcaaggcca ctctgccact 120
tacaatgccc cgtcgcgccc acgcgtccga aaaaagaaat actacaacta atactagcta 180
cagaaaaatt aaaaaatcgg atagcaacat aatatgaggg cggacactca tgagctccca 240
aaattcctgc cagcgtcttt gcgatgacca tagcttatgt atggtggcag gtaagtctaa 300
tccattggtg ccagggttga caacttcgag tctgataa 338

<210> 32095

<211> 238

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-B7

<400> 32095

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gtggaccacg gaccggctcg ggcggcgggc gtcgatcctg gtggccgact gcctcttctt 180
cgtgggctca gtgagaatgg cgtaggccac gcgccccgcg ctgctcgtgg tgggccgt 238

<210> 32096

<211> 407

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 32096

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tccacatacg ttaatcggtc ccaccggatc cctcgccgac tcccacgggc cgggccgcgc 180
cgtggcgcgc gcgcaggccg agatgcggaa gaggatggag agcgtcgacg atctgatcga 240
ggaggcaaaa ctgcgcaccg tctggtgggc gctctgcatc ttcgccgtct cctacttcct 300

cacgcgtgag cacgtccctt tctgtccctc tctgttccg tgcctcattt gcgaccgaat 360
 tgggtgtgag gctcgtgtgg gccccgagaa ggaccggggc gggcata 407

<210> 32097
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-C1

<400> 32097

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 caaacaaaaa aaaaaaaacc acaacaaaaa agggggcccc ctccaaaggg cccaggggtc 180
 aactccccgg ccttccaacg ctaaagtact aataggggga gcccaacgct caatccccgg 240
 cccgggggtc aacaacttcg taccgggaaa accccggggc tcccccaaga aaaccccggt 300
 gcacaacacc cccttttcgc cagcggggat acaaccaaag ggcccccaacc caaacgcctt 360
 tccaaaaatg tgccccccca aaagggcaaa cgggaccccc cctgaacggg ccataaac 419

<210> 32098
 <211> 356
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-050-Q1-K1-C11

<400> 32098

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 ccggcaccgg acccgtaggg cctcgcgccc gtctaccccg atccgtacgg tcgacctccg 180
 cccagtcgg cgtacggtgg ggctgggac tctactgcc acagcggcca aagctactcg 240
 ccccgccgg cctactgcgc ctgggggtgg tacggcaacg tcgtccacgt ctgcacgat 300
 gtctgtact agaggcctta ctactgtgc tgctgtgct gtcttggtgg cgccta 356

<210> 32099

<211> 409
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-050-Q1-K1-C12

 <400> 32099

 cccacgcgtc cgggtcaaaat acacgaaggg caacgagggc aggcctagta tagaggaaaa 60
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 cggcgccac cgcccgcgcg gcgctcgtea cggcagaggt gcctgcggag gccgccgagg 180
 actccacggt tgtggagacg tggaagaagg tcgccccaa catcgagccc ccaacgacgc 240
 ccctcttct catgcagccg cgcgcgcca cgcgggtac catccccact aagctcaccg 300
 tcaacttcgt cctcccctac aagtccgaga tcgccaacaa ggaggtggac atggtaattg 360
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<210> 32100
 <211> 319
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-050-Q1-K1-C3

 <400> 32100

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 gcacaagcac aagcagcacc tcggcgaggc cggcgccatc gccgccggcg ctttcgcact 180
 ctacgagaag cacgaggcga agaaggacct cgagcacgcg cacaggcaca agatcacgga 240
 ggaggtcgct gccgcggcgc ccgtcgggcg cggcgggtac gtattccacg agcaccacga 300
 gaagaagaag gaccacaag 319

<210> 32101
 <211> 175
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-050-Q1-K1-C6

 <400> 32101

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 ggagccacat aaagggacag acttcacaga acccaactca aggaaactgg atcgggccta 120
 taaagccaaa gatttgaacc tatcaggaca tcaactgccgc aggaccatcc caacg 175

<210> 32102
 <211> 116
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-C8

<400> 32102

atatgttttag cagcagcagg tgtattgtgc gggatatgtaa tggatttgca actatattgg 60
 gtgtaaaacc ataataaatg tgggcaaata tgcaaggaaa aaaggcttct acttct 116

<210> 32103
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-D10

<400> 32103

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 tacgaaacca aggatactga tatcttggca gcattccgag taactcctca gctcgggggtt 180
 ccgcctgaag aagcaggagc tgcagtagct gcggaatctt ctactggtac atggacaact 240
 gtttggactg atggacttac cagtcttgat cgttacaaag gacgatgcta tcacatcgag 300
 cccgttcctg gggaccaga tcaatatatc tgttatgtag cttatccatt agacctattt 360
 gaagagggtt ctgttactaa catgtttact tccattgtgg gtaacgt 407

<210> 32104
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-A11

<400> 32104

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ggcagccagg atgacagaag caccatttct gccacgtgag aggctcttca agctgcaaca 120
tcatttccag aacatgacca agcacaccta cctgaaaggg cgctacgatg tgatcacctc 180
cgttgccatc cctcttgac ttgctgcctc cagcatgttc atgattgggc gtggagttaa 240
caacatgtct catggaattg ggaaaaagga gtgatctacc acgggttaac tagtttttct 300
acttggcatg gaagtaccat ccagactatg aagtcttctt tgcttgctaa ataatactgt 360
caaagaacaa gtcgactaca tttttgcac atatttctgt ttgtatttgt ggata 415

<210> 32105
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-G2

<400> 32105

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cgtctccttt gtgaccctga acaagggttg tggattcctg cagcggatgg acctgtgccg 180
taagtacgcc tttggaaga tgctcgtgat aggctctgag ccacccttca agctgaaggg 240
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ggagctctac gagtggacca aggtggacat ctctgatgag gccagaagg agcgtgtcaa 360
tgcatgatt gaggaccagg agcccttga gggcgaggcc ttgcttgacg cgaaatgctt 420
caagtgagtg tgcttgctg gagacagaac t 451

<210> 32106
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-G3

<400> 32106

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cgacgtgtac gccgagtacc gggcgatgca gatcacggtg cccaccgcgc tgccgccctt 120

cttccagccg cccaacgacg ccgcgctctg ggcgccttc ctctccgcct acaacgtccc 180
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caccatccgc gtcgacggct ggatccgctg gaaggccggg gccttcatca ccagccacta 300
ccacctcagg gtgcgctgcc ccgcgctgct caccgtcaac gacggacaag gaagctacgg 360
ctccaacgcc ggtggagggc tcggctactt caagttccag cgcgagcac cctgcatcgt 420
agacgtctga gatcgatctc gatcacaaat cacatttaag ag 462

<210> 32107
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-G4

<400> 32107

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ctgatacaat tcacggagcg atttaaaaaa tactgttaaa aactctacat gcaccacttt 120
catgctttct acgacccctt tattaccctc acctgccatc ttttaacaat gcagtgactg 180
gcaaaatcct ggtatcacc c tatttaaaag cttctctcaa caatctcttt tccacacctt 240
acgttatcgc aactttgccc atccccattt ccttaccctc caaacctctt accttaatgg 300
ccaaattacc cccccctata 320

<210> 32108
<211> 192
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-G5

<400> 32108

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gtatcgtaca tgtgggggga atatgaactt tcgatgctgg gactggggcc gagcactgtg 120
gatactgctg ccagagactt actaaaagaa catatatatg cagctctaga gagtggctat 180
acatgcaagg aa 192

<210> 32109
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-G6

<400> 32109

gttcttccag ggtatggggc aatttttcat ataatgggga ctggtctgtt ttggttgttg 60
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 cacttaagcc caacgatatt caaatcgggc gtgaaatgga aaaatttgca aatggcaatt 180
 aagtgaacc ggtggaattt ccaaccagag gactttcatg acaatagtag ggaaactata 240
 gtatttcgtt cttttcttat ttccacgtct tcccccccta ctggtgtgaa taggagctga 300
 ttcatttagc tgtaagggtga taggtttaat ctctaattgt catgtatgta ttcgtataaa 360
 atttacagaa aaggaaatag aagtccacgt acaagttttc atctgcttgt tgcagcatta 420
 ttgcaggcta aattt 435

<210> 32110
 <211> 455
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-G7

<400> 32110

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 ctcaattgat gacctaacag ttctaattgcg ctgacaccta gtagtcccat ctgcacatgc 120
 catcgtcttg attgtgtcgc tgtcttgatt gtgtcgtgc ctacctatgt tggcacatca 180
 ttgttgatg gatatacatg tctaaaatgg gccaggtttg ctaggcggcc catggcctgg 240
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 ggcttgatca ccgtgtcgtg catgggcctt aggtgcagca cgacgggcta gaccggtac 360
 agatcggttt tttttcccta tttttcataa aaaatatcct tattatgctt gattatagaa 420
 tataaaacaa aaaatatgtg tgtaaagggtg gagtg 455

<210> 32111
 <211> 323

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-049-Q1-K1-G8

 <400> 32111

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 gtgctggact tactgtctgg cggcaaaagc acagcgctac ccaacttcgt gcaccgtcgc 120
 agcttgagga gtttccgggg atgaaaggct atcccatgca acatcgacta gttcatgtct 180
 cgagcacaga gcaaagacat atgtgacgtg tctaaaacat atgtcgtact ttatgtattg 240
 taccaattaa acatttaatg aacttaattg atcaaataag ttaatggctt gaatgatcct 300
 tagtttgaat ccatgttttg agt 323

<210> 32112
 <211> 397
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-049-Q1-K1-G9

 <400> 32112

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 gagaagaagc cgggtggccaa gaagcccgcg gaggaggagc ccgcgacaga gaaggtggag 180
 aaggctccgg cggggaagaa gcccaaggcc gagaagcgcc ttccggcggg caagtccaag 240
 gagggcggcg agggcaagaa ggggaaaaag aaggcgaaga agtccgtgga gacctacaag 300
 atctacatct ttaaggtgct gaagcaggtg cccccgaca tcggcatctc gtccaaggcc 360
 atgtccatca tgaactcctt catcaacgac atcttcg 397

<210> 32113
 <211> 214
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-049-Q1-K1-H1

 <400> 32113

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cctaccccaa cttgcttggg ataaaaggct ttgttgttgt tgttggaatg taagattgtt 120
 tgtttttgaa gccaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaaaaaaa 180
 aaaagataaa ctaaataaaa aacatagcta aaaa 214

<210> 32114
 <211> 454
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-049-Q1-K1-H10
 <400> 32114

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 gtcctataaa gtggatgatc cgaatgcgcc gagaatgatt cttctcgta ttttctacgc 180
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<210> 32115
 <211> 426
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-049-Q1-K1-H11
 <400> 32115

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 ctctcgcacc tgccccggt tctcgtcac cgccggcgcc aacggcgccc ccggcgcttc 180
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ctacta 426

<210> 32116
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-H4

<400> 32116

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gttgctgttt ccatttttat agaatttcaa gattacaatg gatctatgaa aagatcgtgt 180
atttacaact acaacggaat agtatacaaa gtcaacacca atgattaaat agaatttatg 240
gctacacaaa ccgttgaaga tagttctaga cctaagccaa aacggactgg cgcaggtagt 300
ttattgaaac ccttgaattc ggaatatggg aaagttgctc cgggttgggg gactactcct 360
tttatggggg tcgcaatggc tttattcgcg atattcctat ctataatttt agaaatttat 420
aattcttctg tttaactgga cggaatttta acg 453

<210> 32117
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-H5

<400> 32117

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gttgctgatc ccatttttat agaatttcaa gattacaatg gatctatgaa aagatcgtgt 180
atttacaact acaacggaat agtatacata gttaacacca atgattaaat tgaatttatg 240
gctacacaaa ccgttgaaga tagctctaga cctaaaccaa aacctactgg cgcaagtagt 300
ttattgaaac ccttgaattc cgaatatggt aaatgttggt cattttgggt gactactcct 360
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taattcttc

429

<210> 32118
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-H6

<400> 32118

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tgtaacgcaa agctctctga ttttgggctt gcgaaagacg gacctgtagg tgataaaact 120
catggttcta ctcaagtaat gggaacctat ggatatgcag aaccaaattt tgcaaggact 180
ggctcttttac cttaaagaat ggtggctacc agtttcgggt tgggtgcttct tgagatgatg 240
tcaggccgca ggtcgatgga caagaaccgc ccgaacgggg agcacaacct ggtggaatgg 300
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ggcaacttct 370

<210> 32119
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-H7

<400> 32119

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gtcaccatat ctgatctccc tctccccctg attgcccgcg gtggccattg cctcgctcgc 180
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cgcccaggat attagttagc gtggaggatg gcgtccaggg acttctctcg cgtcttcggc 360
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ctc 423

<210> 32120
 <211> 431
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-049-Q1-K1-H9

<400> 32120

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acgcggacat gacggtggac gagttcaagg agtggctgcg gcggttcgac acggaccagg 180
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cggggtggag gagcaggcag ggcatacgtt acgccgacgc tgacggcgac ggctacatcg 300
acgacagcga ggtcgatggc ctcatcgagt tcgcgcagaa gaacctcggc ctcaagatcg 360
tcgcctactg atctcacatg gggcgcgggc cgcggcggtc gnggggtggg acgcactagc 420
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<210> 32121
 <211> 345
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-049-Q1-K1-G12

<400> 32121

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accgctgctt cgtcggcggc ctgcctggg ccacggacga ccaactccct cacaacgcct 180
tcagcaccta cggcgaggtc ctcgagtcca agatcatcct cgatcgggag acgcaaaggt 240
cccgcggctt cggcttcgtc accttctaca cggaggaggc gatgctgaac gccatcgagg 300
gcatgaacgg caaggagctg gacggncgca acatcacctg caacg 345
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<210> 32122
 <211> 95
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-D7

<400> 32122

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aggaaaaaaaa taaaaaaaaa taaaacttaa ataata 95

<210> 32123

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-D8

<400> 32123

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cgaccaaggt ccagcgtatt atgaccacgc ccatcaacct catcttcggg ttcttacaga 180

gcaaagcgcg catccagatc tggctattcg agcagaagga cctccggatt gagggtcgca 240

ttatcggatt cgatgagtac atgaacttgg tctcgaaga cgctgaggaa atcaacgtca 300

agaaaaacac taggaaatca ctgggccgga tactcctcaa aggtgacaat ataactttga 360

tgatgaacag tggcaagtga agattcttat ggcaggaacg atgtttggtg ctgcgttcga 420

ttatctgtga cacaatgtac tcca 444

<210> 32124

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-E1

<400> 32124

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ctgtgctgag aaggcctacc acgagcagct gtctgtggcc gagatcacca acagcgcctt 120

cgagccatcc tccatgatgg ccaagtgcga tccccgccat ggtaagtaca tggcctgctg 180

cctcatgtac cgtggtgatg tgggtcccaa ggatgtgaat gctgctgtgg ccaccatcaa 240

gaccaagcgc accatccagt ttgtggactg gtgccaact ggctttaagt gcggcattaa 300

ctaccagcct ccaagtgtgg tgcctggtgg tgacctggcc aaggtgcagc gcgctgtgtg 360
catgatctcc aactccacca gtgttggtga ggtgttctcc cgcacgacc acaagttcga 420
cctcatgtac gccaaagcgtg ccttcgtgca ctggtatgt 459

<210> 32125
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-E11

<400> 32125

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tccatgataa ccattgtatc attttttttt taaccaatat tatatataga cttttatcat 180
aaaaatgatt ttaaaatcta tgctcacata tatgatcact ttttatacac attttttattc 240
cttttctcaa tactgtatca aacacattat atactttgta aacatcttct attt 294

<210> 32126
<211> 93
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-E4

<400> 32126

cggacgcgtg ggcggacgct tctatcaaatt atttcttcta tttagaaatc taaatttaatt 60
ggaagggttc ttaaatttaa aagtcattaa tat 93

<210> 32127
<211> 442
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-049-Q1-K1-E8

<400> 32127

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caacagggtc tactttatgt gctgattgca tcaatcccg ttccttaa at gt 292

<210> 32130
<211> 277
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-F12

<400> 32130

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cgcgacgcc caacagcccc gagaggtgaa aaccccggt cccggcctgg agtacgcca 120
aggctctggc caacagcaac ccgcggccgg caaccaagcc ggctggatcg gttggctgga 180
cacgcttgaa gccgccgacc aagtgcgcg gctgggcaac tgggcgcacg gctttcaacg 240
ggcctggatt gaccggtgga tcgaactaag gccgacc 277

<210> 32131
<211> 463
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-049-Q1-K1-F2

<400> 32131

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gcattggacc aagagttaat ggaaaggcag cttgatgtta ttaagccaaa cacacagtct 180
aggtcacaaa aggaagggtc agaaacggac cagttttgga gtttactggg aggcaaatct 240
gagtactcag gccaaaaaat ggtgcgagaa ctgaaagtg acccccatct tttctcatgc 300
atcctgtcga aaggcaattt gaaagtcaaa gaaatacacc actttactca agatgatcta 360
atgacagaag atgttttcat tctggactgt cacacgagca tatttggttg ggttggtcaa 420
caggtggatg ttaaaagcaa gttacaagct antggatgct ggg 463

<210> 32132
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-F3

<400> 32132

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tggccttgcg agggggctga ggggaggtgg tacgtggtag tggtagtggg agggatataca 120
ggagtgtctt gcccatggag aaggcggggc aacaacgcca tgtcatcggc aggcagcagg 180
caagaaggcg cccgcgctgg ggctgcagaa gcagaactcg gggtcgacgt gacatcgagc 240
gcgacgaggc ttgggagcgc cggcgcaggg agcatgcgca gcggggggcac agcgctgctg 300
cgcgctcgca gcgtcacgga cgacgacctt gacgagcttc gaggatgcat cgaactgggc 360

<210> 32133

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-F4

<400> 32133

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ctcgtggtag cgctcctgct cgccgccacc ttcctcgccg cctccgctaa cgagcaagcc 120
caggcggcca aagaggagaa gaaggcggag gtccaagact ggcacggcgg cggcggctac 180
ccggggcacg gcggcggcgg cagcggaggc taccgggggc acggcggcgg cggcggcggc 240
ggctaccgcg actgccggtg gggctgctgc aaccgcgggt accatggcgg ctgccggtgc 300
tgctcgcacc ctgatcagat accagagccc atgtaccgtc ctgagctcgt cgaggtccac 360
aactaaatag taatgagatg cgctgctact atatatacgg gtacgtatgc ccgatgggaa 420
gcagagcaca cgcgtagtac gctc 444

<210> 32134

<211> 461

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-049-Q1-K1-F6

<400> 32134

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catcgacatc ctcatcgcca tcatectccc gcctctcggc gtcttctca agttcggctg 120
caaggtcgaa ttctggtctt gcctctgtt cacttctct gcctatctcc ccgggatcat 180
ctacgcgata tacgttatca ccaaggacta gccagctagc gccgtaaacc gggacaaggt 240
gagagagcta gctgatcagc cagcggagggt aatggagatg aacgtactgc tgagatcact 300
ttaatttgcc ctgttgctca atgtttctgg atggagactg aatctcagct gtgctgtgat 360
tctgctatat agcttggtgcc gcctgttctc tattcactag tcggtgctcc cgcgtaatat 420
ttctctcaga ctctngtgct atagtatgtg atgcatgcaa a 461

<210> 32135
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-D5

<400> 32135

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gcctgttcgc aggatggcgt gttgagcatc atcaccggc ccatgttcca tagcatgctg 120
agccaccacc gctactgcat gtgccaaggc gccttctaca cctacgacgc cttcatctag 180
gccgccagca agttccccgg cttctgcacc accggcgacg agcaaaactcg caggcaggag 240
ctcgccgcct tcttctgcca gacgtccac gaaaccacca gtggatgggc gactgcttct 300
gatggaccct ctgcctgctg atactgccg ctgaaggaac ataaacagac ggaccacccc 360
tactatggac gacgacccat acaactaac 389

<210> 32136
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-F7

<400> 32136

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cggcgacatc ctcatcgcca tcatectccc gcctctcggc gtcttctca agttcggctg 120

caaggtcgaa ttctggctct gcctcctgct caccttcctc gtctatctcc ccgggatcat 180
ctacgccata tacgttatca ccaaggacta cccagctagc gccgacatac cgcgacaagg 240
tgagagagct agccgatcac acagcgtacg taatggagac taacgtactg ctgagatcac 300
tataattagc cctgtcgatc aatgctactg gatggagact gaatctcagc tgtgctgtga 360
ttctgctata ta 372

<210> 32137
<211> 269
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-G1

<400> 32137

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tgtactgaac gtgtgactag ataacaacaa gcgtgaacca tggcggacca agtacggccg 120
caacggctac cggaggtccc ggcgcggcga cactaccac agcggcttca acagcaagtc 180
cggcactgat gactaccggc gtggcgaaag tggctacaac aagtcgggcg gcgattacca 240
ctaccggcgc aacggcggcc atgggtacc 269

<210> 32138
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-G11

<400> 32138

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cggacgcgtg gggagcgatc cactcccga tcagcagctg atcgctcact cttgcagctc 120
gatcattctt tagctgctct agctctagcc tctagcccta gctagtagct agccactcgg 180
tcgtgtagtc atcagccttc tgatcgtcac ccatggccac tgccgaggtc cagaccccga 240
ccgtcgtggc gaccgaggaa ggcgcggtgg tggagacccc ggctccgccc gccgtcgtgc 300
ccgaggaggc tgcccccgcc gccgaggcca aggtggaaga gccagctgcc ccggcggaga 360
ccgagccagc tgccgtcgct gagcccagg cgcccccggt ggcggcggat gaagagacgc 420

caaaagagga agagac

436

<210> 32139
<211> 456
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-B3

<400> 32139

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cggcggcggg ggcgagggcg agggcgaagg cagcgggagc cctggcgctg gcgctcgtgc 120
tcgcgctagc gggggccaac tccgagggcg acgcgctctc aagcgctgcg ccgcagcctc 180
agggaccccg gcggcgtgct gcagagctgg gacccacgc tcgtcaacct ctgcacctgg 240
ttccacgtca cctgcgaccg cgacaaccgc gtcacccgac tagatcttgg taattcgaac 300
ttatctggtc atctggtgcc tgagcttggg aaattggagc atctgcagta cctggaactc 360
tacaagaaca gcattcaagg aacaatccct tctgagctta ggaatttgaa gaatctaata 420
agcttggtgact tgtacaagaa caacatgttg gggaca 456

<210> 32140
<211> 73
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-B4

<400> 32140

cccacgcgtc cggttttgtg cccttaccat actctgctgt tgcttgagaa tatgttatta 60
gtctgtccta gct 73

<210> 32141
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-B5

<400> 32141

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cggggatgat gacgatgtcg gagccctcca gcgcctcccc gagctggtcg tcccccatga 120
 accccttcac cagggcgggg gagttgatgt gggagacgtc ggccgcgacg ccgggggtgc 180
 cggcgatatc gtagagggag agggaggaaa cgagcgggtt gagcttcatg aggagcgaga 240
 gcggctgccc gatgccaccc gccgcgccc ggaatggccac cttccgctcc ggattggccg 300
 aagacgcgta gccgcggctg cagcggagga gctcggccgt ggacttcagc agcgacggcc 360
 tcatggcggc ggctgggtcg gggatcactc gctcgggcgt gtctcgctgt ggattggtgg 420
 ggggagcggc agtgggcggc ggcgagaagt gaggggagca c 461

<210> 32142
 <211> 78
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-B6

<400> 32142

tccggtctct gaattcccgg agtcgacgcc gacgcgtctc ggttcgacac ctagcgtctc 60
 ttgatcctac atactaca 78

<210> 32143
 <211> 380
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-B7

<400> 32143

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 aggcgaaaat ataaaaaaaa aaaaaaaaaa aaaaaaaat actaaaaaaaa aaaatatact 120
 ataaaaaaaa ataaatataa taaaaataaa ctacaattaa aaaactactt gactattaaa 180
 aactttcaat ttttgaaatc aatcctttta tagaacatat tttttaatgc gcatcccaaa 240
 ttaaatgaag atggctcgac ttttaaaacc ttctgaactt taaaacatca tgaatcacta 300
 atttaactcg ctttggatca aatcattttt tgcggagttg cagtattttc aacaagacca 360
 gaccggttaa cttttcaaaa 380

<210> 32144

<211> 348
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-049-Q1-K1-B8

 <400> 32144

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 cttaacatac ctctgggtcac attccatact ttactcctt atatattaca tataactatg 180
 caatatataa ctttattaat tcctacctat gcttatcatc aggttgaact ctgaactttg 240
 acttccaaaa ctgcacaatc atcacacgca tgtgcacagg accgaagttt ccagccagcc 300
 aatgctgagc cgcactcatg gaattcgcgt gcccttttaa caattacc 348

<210> 32145
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-049-Q1-K1-B9

 <400> 32145

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 atggagaaat ttcttatgtg aagattcctg taggcaagca ttgtggattt gttcaattta 180
 ccagcaggtc atgtgctgag gaagccatcc gaatgctgaa tgggagtcag gttggtgggc 240
 agaaagttcg gctttcatgg ggccgtagtc ctcaaacag acaggcttct cagcatgatg 300
 ccaacaacca gtataatggg aacagctatt atggatacca acagccgggt tatgaaggtt 360
 atggctatgg tgctttcagt gcacaagaac caagcataca aaactactac ggatactc 418

<210> 32146
 <211> 445
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-049-Q1-K1-C12

 <400> 32146

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caacagaaga cagaaacaaa tccactattg gttttacgtc aagcaatacg tagagtaact 120
cccaatatag gagtaaaaac aagacgtaat aaaaaaggat cgacgcggaa agttccgatt 180
gaaataggat ctaaacaagg aagagcactt gccattcggt gggtattaga agcatcccaa 240
aagcgtccgg gtcgaaatat ggctttcaaa ttaagttccg aattagtaga tgctgccaaa 300
gggagtgggg gtgccatacg caaaaaggaa gcgactcata gaatggcaga ggcaaataga 360
gctcttgac attttcgtta atccatgaac agaattctagg tatgtagaca catggatcca 420
tacatctcga tcggaaaaga atcaa 445

<210> 32147

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-C2

<400> 32147

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gtgaaaaaga tttctgctct gaagaggagc acatttctcc aataaatttc aaatcgctaa 120
taattcttga tgagcgagga tttcaagcac acattagacg catagtagaa aatagctgtg 180
atgcaactga tgtcagaaga aatatcgcaa tgctatgtca tataatttct gaagacggct 240
gaagttctct ctttaccgac ttgtcgtcct acgagttcct acaatcagtt ggtagcaggt 300
gtctatatat ataatatgat ggaagcagag aagaatggaa acattcttat gcaaaagtat 360
gaggttgga aattattggg gcaaggaaca ttgccaagg tataccatgc taggaacata 420
gagacctctc aaagtgttgc tate 444

<210> 32148

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-C3

<400> 32148

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gtgaggaaga tttctgctct gaagaggagc acatttctcc aataaatttc aaatcgctaa 120
taattcttga tgagcgagga tttcaagcac acattagacg catagtagaa aatagctgtg 180
atgcaactga tgtcagaaga aatatcgcaa tgctatgtca tataatttct gaagacggct 240
gaagtttctct ctttaccgac ttgtcgtcct acgagttcct acaatcagtt ggtagcacgt 300
gtctatatat ataatatgat ggaagcacag aagaatggaa acattcttat gcaaaagtat 360
gatgttgaa aattattgcg gcaaggaaca ttttccaag 399

<210> 32149
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-C6

<400> 32149
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caacaagaag ctggtgtacg tctacgacga cttcgccgtg acggccgcca cggccgcca 120
cgccgtgccg ctgggcgcg cgcccgccc cgggttcgcg cagaggccg gcaacgtcac 180
cgtcatccgg gccaccgtct ccggtccgc gctcgcggtc gaccccgccg cggccggctc 240
cgacgtcaag aggtccggcg agttcccat cgtcctggac ctggagacca gggccggcgt 300
ccgggttggc gcgctcagga ccaagaagat cggcatcctg gtgcactgcg acggcgtcaa 360
ggtggccgcg cccgcgccc cgccggcca ggaga 395

<210> 32150
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-C7

<400> 32150
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aagttcctcg catctttcgc gtcccoctacc cggaggagct actccaccat gaacaaccgc 180
cagcggcggc gaccgtcccc gtgatcgatc tcagcggcga ccgcgcagcc gtgatcgacg 240

ccgtccgtgg ggcggcggcg ggggtgggggt tcttccaggt cacgggccac gcggtgcccg 300
 agcaggtgat gtcagcagcc gtggcggcga tgcgggcgtt ccacgaagcc gacggcgggg 360
 agggcagcga caaggcgcgg ctctactcgc gagagcccgg gagggcggtc aagtaccact 420
 gcaacttcga cctgtaccag tctcccgtgg ccaactggcg 460

<210> 32151
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-C8

<400> 32151

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 gacaattggt caccggaagt gcttctaggg ttccacaagt tctcgtcgt tacctagtct 180
 caaattatgt cccctccatt tctcgagata tgtgtggcag atttgcatga tacgtttggt 240
 tgtttccatc ggacctgaag tcttcttggg gataggctcc cccctttgta tggtgtggct 300
 ccaatccatg tgcgagcacg ctgtgtctgt cgtgacacct gggtcgtgag atgggttgct 360
 aaacttgatt ggtaggtgt gcgtggctgg aagagctgat agttatata 409

<210> 32152
 <211> 308
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-D1

<400> 32152

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 tctctactct gaagtctgaa ctcaatctca cacggatgat acacgaacta gggagatgtc 180
 tttgttttcc taggggcgcc acggattagc ctgttcgcag ctgaattttt tcttgttttt 240
 ttttttctgt tttcgctatc tgtattgtag tcaactgtgca aaaaaaatcg ttttgattga 300
 ttggctgc 308

<210> 32153
<211> 450
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-049-Q1-K1-D10

<400> 32153

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ccaccatggc tagaggattg aagaagcatt tgaagaggct caatgcgccc aagcattgga 120
tgctggacaa gcttggcgga gcttttgctc ccaagccatc ttctggacct cacaagtcta 180
gggagtgcct gccactgatc ctcatcatca ggaacaggct caagtatgct cttacatacc 240
gtgaggatcat ttccatcctg atgcaacgcc atgtacttgt tgatggcaag gtcaggacag 300
acaagaccta ccctgctggg ttcattggatg tcatttccat cccaagacc aatgagaact 360
acaggctgct gtacgatacc aaggggcgct tncgncttca cccaatcagg gatgaggatg 420
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<210> 32154
<211> 298
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-B12

<400> 32154

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ccctgaaacg gctgatgcaa agattccagc tgctgcccac gcggagctgg acaagatacc 180
acaccactga taagctcagg cagctaagca accacatcat cgaacatacc accatcgtct 240
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<210> 32155
<211> 465
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-D3

<400> 32155

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tgccggcgcc ggcgcgcagc agggcgtgtg gagcatcatc acccggccca tgttccagag 120

catgctgagc caccgcggcg acagcgggtg ccagggcgcc ttctacacct acgacgcctt 180

catcgaggcc gccagcaagt tccccggctt cggcaccacc ggcgacgagc agacgcgcag 240

gcgggagctc gccgccttct tcggccagac gtcccacgaa accaccggtg gatgggagac 300

tgctccggat ggaccgtttg cctggggata ctgccgggtg aaggaacaga aacagacgga 360

cccacctac tatggacgag gacctataca gctaactcat aagtacaact acaggctcgc 420

cgggcaagcg ctgaacctga acctggtggg cgacccggac ctggt 465

<210> 32156
 <211> 464
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-H6

<400> 32156

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agctcgtgga caccacaaaa gccacacgtt tcgtcagag ataaacaaca gacaggcaaa 180

agattacata cactactgcg cgtacgctgt gcacatatcg atcgtatttc tccaaatact 240

gaagctgctg ccgctcgtgg ggacctcaca gcacgctcct ggggacgaag ctgctgccgc 300

cagcgatggt ggtggtggtc tcgtcggcca gcccaagccc accgttggtg gtgaagcagt 360

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aggctgtcct acctgtgtag aagaccact tgacgggtcg cttg 464

<210> 32157
 <211> 481
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-H7

<400> 32157

<400> 32159
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gccaccaatg gccactgccg aggtccagac cccgaccgtc gtggcggccg aggaagcgcc 180
cgtggtggag accccgcgcg cgccgctcgt gcccgaggag tctgcccccg ccgaggccga 240
ggccgaggcc gaggtctgtg ctctgtctga tcccgaggag cttcccgcgg ccgagcagca 300
ggcagccgcc gaggcggagg ccgcggctcc tgctggtgcc gaggagccccg tcgcggccga 360
accggccgc 369

<210> 32160
<211> 425
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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<400> 32160
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gtgccggagt cggggaaggt caccgcgggc gcgagccgat ggacagcaac aacctcctgg 120
cggcgtggcc ggtcctgggg ccgggcgtcg ccggcgccgt attcggcgca ggctggtggt 180
tttgggtcga cgccgtcgtc tgcagcgccg ccgccgtgcc attcctccac tacctcccag 240
ggttcttcgc ctggttcgcc gcgctcatgt tcaactgcgt caaccgggag gacatcggcg 300
atggctacta ctaccgtac gacgactccg agtggaaggt gaagctctgg ctntttatnt 360
cgtacgtggt gtcgtttgtt tcgctggccg gngcagtggg tttcttggtt caagatgcgc 420
ttacg 425

<210> 32161
<211> 283
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-049-Q1-K1-A11
<400> 32161

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 ctggttttat aggttctaata tttactcacc cttgtttgca accgtataca tctcatattg 180
 gtggatttaa atcgaattca ttggctgaag ttttaaaacc ttgaaattgg taaaatatgt 240
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<210> 32162
 <211> 447
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-049-Q1-K1-A12

<400> 32162

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 actctgcatg gtattttaag gggtcaaagc tgtttcaggg ggcatcaagc ccgtcatcat 120
 gcaagagaac gaacaagagg agttttgact cttcaatcat tcattcgtgg tgagaatgca 180
 cggcaaattt actcctcttt gttgaggaaa catagagccg cagttgtttt gcagagaaat 240
 gtgagatggt ggcttgcaag aaggatatttc ataaatgtcc ggaaggcctc agtgataata 300
 cagtctggta ttcgtggcag tcttgttcga agatgtaatg gcaatattga tctaataaat 360
 gtgctaagag agtttgaatc anaacaggta caataactgt gtgtgcgcgc gcgcccctta 420
 tacggtgctg ctggcagcta tattcat 447

<210> 32163
 <211> 352
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-A2

<400> 32163

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 cagctggtgc tgatcctgtg cctccaggcc gctctggtca tgggcgtctt cgccgctttg 120
 gctaaagaaa atgccctggt tgagagcaag gccatcgaca tcaacccggg gcagctcaag 180
 tgctgcacca actgcaactt ctccttctcg gggctctaca cctgcgacga cgtcaaaaag 240

gactgcgacc ccgtctgcaa gaagtgcgtc gtcgccgtgc acgcctacta cttgggcaac 300
aacaagttca ggtgcaccga caccttctc ggtatgtgct gcccgaagtg ct 352

<210> 32164
<211> 465
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-A3

<400> 32164

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atagtgtca attggatcta tcccctgagc ataggagaaa agtatcaatc tgtacagtgg 180
atccaagtat tctataaagc atgtatctc caatttccca caagcgagaa tggcatgata 240
tgatggatga aatggctgtt gcggtcaatt gtctttcaag gatcaattgt ctttcaagaa 300
ccacacttat gtattggttt gtgtgcagtt caagctctgc aaggtgaggt ctgttcagtt 360
tggccagaaa gtcatccctt acctgaacac ctacgacgac cgtaccatcc gctaccccg 420
ccctctcatc aaggccaacg acaccatcaa gatcgatctg gagac 465

<210> 32165
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-A4

<400> 32165

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gctggaaatc tatctgattt ctacgagaat tgccgggggt tagaacttgc gaggaatttt 120
cagtttccca ctctgagggg gccgccacaa acatttcttg caactatgga ggagtatgtg 180
aaggaggctc cacgcatggt ccagttcga gaacccttg aacttctga gaggcttctt 240
cttacatata aacctgaaga atcgaggagc attcgtgagc ctgcttctgt tgaagaggaa 300
aatgcaccag ttgaagagcc tgttctggta ccacctgtta ctgaagttgg ttcaccttcc 360
aagtccgagg tggccgatac tggtgactta ctgggcttag atgat 405

<210> 32166
 <211> 401
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-049-Q1-K1-A5

<400> 32166

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agctgcgggg gcccaccaag gtcagcgtct tcctcgccag caacgacgcc gagcaggcct 120
gcgacttcag gatcaccggc agctaccacg acggcgcttg cgctgtctcc ctcggcgact 180
ccgacaccgt catcgccaag atcgaccggc gggtcagcgt ggtcagcgcg ctgctgggga 240
agaactcgta cagcgtcacc gtcaaccggg ggatcgacta cgccttcgtc gtcgcgctcg 300
tcgtcatcct cgacgagatg cattaccagc gatgacacgc acgcttcagt tttggttcca 360
agccgngcgc cttcccttct gctgatgcgt ggaatcaacg c 401
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<210> 32167
 <211> 460
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-A8

<400> 32167

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cttgtgcagc cgccccctct tctctaggtt tggaggacgc ccctctcact cctccaccca 60
tgggcagccg ccacccccacc tcccccatca aaccatagcc gccccctcct caagcccttc 120
tctccaaggt gccattcctt tcccgcctcg atctacgtcg cgttgggtgca tgtctccaat 180
tggatttttg tggaggggaag aagaagggag gaaaggggga ggattcaagg tgattttgag 240
attgtacctt gtttaattgt gttgtaatcc aattgattat atgtttacct atccgaatcg 300
gtagagggtg tgctctgaaa ttttgtgggt gggcgaacag cagtagttct agggatttct 360
gggaattttt cgtgggtaat tagtggggat cagtgggtga atcatgtaga gctttgtcat 420
acctttccaa cgggtactta tgcgctcgat tcggagttat 460
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<210> 32168

<211> 383
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-049-Q1-K1-B10

 <400> 32168

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 tttgggggtcg gccagccgga gctggcctag gatcactctc gcgctgccta tcatcggcac 120
 caccctgggc cggctgatgc aaaacttcca gctgctgccg acggcggatc tggacaagat 180
 cgacaccact gataagccca ggcagttcag caaccacatc gccaaacatg ccaccatcgt 240
 ctgcaagccc ctctaggcct agaaatcaat gcgtgtttcc tgcacgcgcc ctcgcatatt 300
 aaccactatg tattttctct ttaacatgta tgatgggtac ttatctacta agatgagatg 360
 gatatttga tcgtaaaatg cac 383

<210> 32169
 <211> 414
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-049-Q1-K1-B11

 <400> 32169

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 tttgggggtcg gccgccggag ctgccctggg atcactctcg cgctgcctat catcggcac 120
 accctggggc ggctggtgca gaacttccag ctgctgccgc cgccggggct ggacaagatc 180
 gacaccacgg agaagcccgg ccagttcagc aaccagatcg ccaagcatgc caccatcgtc 240
 tgcaagcccc tcgaggccta gaaatcaatg cgtgtttcct gcacgcgcc cgcagatga 300
 agcactatgt attttctctt tttttgtgt gttgtgtttt ttttactaag aggagatga 360
 tttcttggtc gtaaaatgca cttagtcaaa tggatcgaga ttatgttgat catt 414

<210> 32170
 <211> 401
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-048-Q1-K1-H2

<400> 32170

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agcttgggtc tatgttctct gtcaaccaga gaaactcaaa aagctgcgca atgaggtggg 180
cattaattgg tgggtgcacc aatacttcaa gtcagttggg ttcaatgtat gaggacaggt 240
tcgagttata tgttctatgc agcaaaaaat acgaaaaaac agccgacaat caagctgaga 300
gggcaaattg gtggaggatt gcatctgggc agcctaattgt ccttactctt gattatgtta 360
acatcagtc c attttccctt cagcaagaag gacaaaggaa t 401

<210> 32171

<211> 485

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-E8

<400> 32171

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ggcgaacgcc acggccgccg ccgtgctgca gtccccgctg ggcgccaact cgtcgttcgg 120
gagcatgggc gtgggtggacg acgagatacg cgtggggccc gaccggtcgt cgcagctcgt 180
cggccggtac cagggcgctt tcttcggcac gagcgtgcag ctggggcgccg gctacctgtc 240
gtccatcacg ctggtgttca ccgccggcga gtacaacggg agcaccctgt ccgtgcaggg 300
gccctgctc gggttcacgg gcaccatcga gcgcgccgtg gtcggcgcca ccggcaagtt 360
caggctggcg cgcgggtaca tgcttttcaa gatgataagc aagccgacgc cggagacgga 420
cgtcaacgag atcaacctgt tcgtgctcat gactccgct ggcaagtact agcgcacaca 480
ccttg 485

<210> 32172

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-E9

<400> 32172

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 tcgcgctagc gggggccaac tccgagggcg acgcgctctc ggcgctgcgc cgcagcctca 180
 gggaccccg ggcggtgctg cagagctggg accccacgct cgtcaacccc tgcacctggt 240
 tccacgtcac ctgcgaccgc gacaaccgcg tcacccgcct agatcttggt aatttgaact 300
 tatctggtca tctggtgcct gagcttgga aattggagca tctgcagtac ctggaacttt 360
 acaagaacag cattcaagga acaatccctt ctgagcttgg taattggaga atct 414

<210> 32173
 <211> 76
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-048-Q1-K1-F10

<400> 32173

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 ttgtgnaat cgcaac 76

<210> 32174
 <211> 197
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-F11

<400> 32174

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 aaagaatttt actgtgtaca agctagtgtc aagtgttgtg catctttgac tgtagtgtcg 120
 ctcaattctg aacatctatt aagccacttt tggtgctatg ctaataccag tctgagagac 180
 actgatgttt ttaacag 197

<210> 32175
 <211> 343
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-F3

<400> 32175

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aaggaaaagg gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aataaaaaac aaaaattttt 120

ataacacaaa aaaaaaaaaa caaaaaaaaaa agggcgcccc ccctaaaaaa cccaacctaa 180

ccaacccaaa catccaacca caaacacccc caatagggcc cccaaaatca aatccaaggc 240

ccgccagatt aaaaacgcct aaacgggaaa aaccggggag aaccccaact aaaacgcagg 300

ccaaaacaac cccctatccc caacgggggt aaaacaaaa agc 343

<210> 32176

<211> 98

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-F5

<400> 32176

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ggcacgcgtc cgcccacgcg tccggttcta gatcgca 98

<210> 32177

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-F9

<400> 32177

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ggcgtgggtt tgcgtgccct ctccagggcc cagattgact ctgttctgga tcttgacagg 180

tgcacaattg tgtccgagct cttcaacaag gatttcgact catatgtcct ttctgagtca 240

agcttgttta tctatcctct gaagattgtc atcaagacct gtggcactac caagctcctg 300

ctcaccattc caagaatcct tgagcttgct gaagagctgt ctatgccact tgctgctgtg 360

aagtactccc gtgggacggt catctttcct tgcgcaca 398

<210> 32178
 <211> 474
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-048-Q1-K1-G1

<400> 32178

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 aattcaggaa taggactatg cttgacataa tttacgttag agatactcat ccattgatca 120
 ctcagattat cttcctgtat cagaactatt accatctatc aagaacagac ccttatgtta 180
 ttcccattga gcctgctgct agtggtggaa tgaatggatt cctatgttta tctgaaagga 240
 actggtatag tgtcactgtc acttctccag ttaaggggtt caatggcatt gtcagaaca 300
 gagttttgaa tgctgcctat ctcaatctc agtatcacia acacatccca gagcctncag 360
 cggnggtcat catacctgcg aagatactga agcctagtga tttcaaacc tttcctgtgt 420
 tgtggcatca agataatagt cgtcgacaag taagagaaag gcctcaggtt tctg 474

<210> 32179
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-G11

<400> 32179

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 tgctgggcaa gtacgagctg ggccgactgc tggggcaggg caccttcgcc aaggtttact 180
 acgcgagga cctgagcgcc ggccgagga cgggtccacag ctgcagcgta gccatcaagg 240
 tgatcgaaa ggcgcggctg cggcgtagcg aggggatggt ggagcagctg cgccgggaga 300
 tctccatcat gcggatggtg ctgcaccca acgtggtggg catccgggat gtgctcgaca 360
 gccggttccg cgtctttcaa gtcatggagt a 391

<210> 32180
 <211> 331
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-G12

<400> 32180

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gaccggctcc atctatcaca aactcacgct acacgtacgc tgcgaatgcg atagctatat 120

ctatagcgat acgctacatc tcaaattact ggcactgcgc cgtacaacta caacgactgt 180

gacaaccata accctaccga tatcaatctt aatggactag atgcacattt cgccatctgc 240

cgctatcgca ataacgcca caccataat cattgccaac agtaacacat tctcaatcgc 300

gaatgggact cgcactctcg ctgtacatta a 331

<210> 32181

<211> 70

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-G3

<400> 32181

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tgcgtctgac 70

<210> 32182

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-G4

<400> 32182

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gatcatcatt gacacctacg gtggctgggg agcccatggt ggtggcgctt tctccggcaa 120

ggaccaacc aaggttgacc gcagcggagc ctatgtcgca aggcaggctg ccaagagcat 180

cgtcgccagc ggccttgctc gccgcgccat cgccaggtg tcttacgcca tcggcgtgcc 240

cgagcctctc tccgtgttcg tcgacacgta cggcaccggc gcgatccccg acaaggagat 300

cctcaagatt gtcaaggaga acttcgattt caggcctggc atcatcatca accttgacct 360

caagaaaggc ggcaacgggc gctaccttaa gacggcggcc tacggccact ttggaaggga 420
cgaccctgac t 431

<210> 32183
<211> 492
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-G7

<400> 32183

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cgggcgga gggcccgagg aagcagctgg cgaccaaggc ggcgcgcaag tcggcccctg 180
cgaccggcgg cgtgaagaag ccgcaccgct tccgcccggg caccgtggcg ctgcgcgaga 240
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tccgcgagat cgcgcaggac ttcaagaccg acctccgctt ccagtcctcc gacgtcgccg 360
cgctgcatga ggccgcccag gcctacctcg tcggcctgtt ctaggacacc aacctttgcg 420
ccatccacgc caagcgctc accatcatgc ccaaggacat ccagctcggc cggcgcatcc 480
gcgggggagcg cg 492

<210> 32184
<211> 488
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-G8

<400> 32184

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aggtcttact cgcggtagca gtctgacagg agcaactggg aatggtgtgc ttggagaagc 180
tatcttagat cagtctgatg agcatgttag cagtgccttg aatcacagga aagggaacct 240
tgtattggaa catgatggta gaaatgggtc ggtagcgtct tataggggag ttctttcaga 300
agaggaccgt gattcttatt ccggccatgc tcggaaggac tctgctgaaa gtattgggag 360

tgatttgagt tctttaagag gaagtgaatt atctgttcca ggggctagta attccctttg 420
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<210> 32185
 <211> 285
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-G9

<400> 32185

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 acagcttacg ctcccatggc gagccaggtg atgaagagca gcctcgtcgt gcactcgagg 120
 ccgagtggcc tgtcaggcgc tgctgcgctc acgatgcggc ccctgttcac cgtcaaggcc 180
 atccagcccg agaaggctac gtaccaggtg gtgcagtcta tcaactgcta ccccttcac 240
 ggcagcctgg agactcctgt cacctcgagc ccgctcgtgg cgtgg 285

<210> 32186
 <211> 459
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-048-Q1-K1-H1

<400> 32186

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 ggtggcgccc acggtgaact gcgcggacaa cacgggcgcc aagaacctct acatcatctc 120
 cgtcaaggcc atcaagggcc gcctcaaccg cctcccgccc gcctgtgtcg gcgacatggt 180
 catggccacc gtaaagaagg gaaagcccga cctcaggaag aaagtgatgc ccgccgtcat 240
 cgtccgccag cgcaagccgt ggcgtcgcaa ggacgggtgtc tacatgtact tcgaagataa 300
 tgctggagtg attgtgaatc ccaagggtga gatgaaaggc tctgcaatca ctggacctat 360
 cggcaaggag tgtgtgacc tttggcctag gatcgccagt gcagcanatg ccatcgtttg 420
 agagcttggt ggaatgtgtt agacttgagt atgatcatc 459

<210> 32187
 <211> 489
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-E6

<400> 32187

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 aaggcggtga aggctcccgc agagaacggc atcactgtct ctgttgtttc ctatgcagca 120
 aaggtggccc agacagcacc agagaaaccc gtcctctcca acggagtcgc caagaccggt 180
 taactcgacc gtgcaaccag agtccatag ccagggtggg gtgggtgtcc tgaagactca 240
 gatgcggtgc aagggaactg gtgaccaacc aaggcaggct gtggaactgg cagcatggcc 300
 ccataagcgt tgctcgatct cctcatcgct actggatgga gagcagttgg ctagtgttta 360
 gcggtttccc tagtttctct tcctcttggt ttccccggtt cagtttgctt atagccccga 420
 agactctttt ctcccgtagt gtcggaatgc cagggtctgt ccctgtgggt gtgttgcgta 480
 actgggatc 489

<210> 32188
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-H10

<400> 32188

ggagtgtgca cgaagtactt gcttcagagt ggtcttcaag aatacctcaa cgggcaagga 60
 ttccatatcg ttggctatgg ctgtaccact tgcattggaa actctgggtga tctcgatgaa 120
 tccgtatcaa ctgccattac agaaaatgat gttgttgctg ctgctgtttt gtcgggtaac 180
 cgtaacttcg agggtcgtgt gcacccttta actcgggcta actatcttgc ctcaacacct 240
 cttggtgttg cttatgcact tgctggaaca tgtgatattg attttgagaa agagcccatt 300
 ggatttggaaggatggcaa tgaagtctta cttcagggat atatggccct tgacagaaga 360
 aattgcgag gttgtccaat ccagtgtgct gtctgacatg ttc 403

<210> 32189
 <211> 475

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-048-Q1-K1-C6

 <400> 32189

 atccaaccca tcttcgtccg ctccggccac tcgtttcgcc gccgtcggtc gccacccgca 60
 gggtttgag gataagattc gggagggatg gcttccgggtg ggcagccgca gttccgggtcc 120
 acgcagccgc cgtcgaaggt gctccacctg cggaatctgc cgtgggactg cactccaaag 180
 gagctggtcg agctggggac ccccttcggc aaggctcgtca acaccaagtg cggcgtcggc 240
 gccaacgcga atcaggctta tatcaaattc ggagcccaaa ataaagctat tgccatgata 300
 tcatattatg catcgtcaac agagccagca caggtaagag ggaaaaatgt gcaccttcag 360
 tactcaaata cacaggatat ggcaacaaca aggcaactgg agaaggttca ggcaacgttt 420
 ttcttgtggg aatggatggg gttgcaccaa attctgtcag cattgatgtt ctaca 475

<210> 32190
 <211> 365
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-048-Q1-K1-C7

 <400> 32190

 gccagggccg tttccgagga cacgtcggac tccggcggcg actagctcat cgaagacctc 60
 agggcaaagt gggacgccgt tgaggacaag cccaccgtcc tcctgtacgg cggcgggtcc 120
 atcctggcgc tatggttgac gttcgtatgtt gtcagcgcca tcaacgcctt gcctctgtc 180
 cccaagatcc tggagctcgt tggcctcggc tacaccggct ggatcgtgta ccgtacctc 240
 ctcttcaagg aaagcacgat agagctggtc gacgacattg agaccctcaa gaaaaagatt 300
 gctggaactg cagaataagc gctagctctc gtggaaagct ttagaaccaa cgactagagg 360
 ggccg 365

<210> 32191
 <211> 475
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3068-048-Q1-K1-C8

<400> 32191

gaaaaaaaaa acacacacac acacacaaag cgcacttttc aaatcgacaa aggggaaagg 60
ttcgcttctt gtggcatctt gctttccttc gagggccatg gccgatccgg cggaggagaa 120
cgttgtctcg ccgccaccga cccctgcggc cccagccgtg ggcgcctcag acccgcccct 180
gcagcctgct gctgacagcg cctcaacgga gaaggtgtct gctccggcgc cggaggtaag 240
gtcccgggga ttcaggcttc ttggagagga cacttccgtg cacaaatccc ttggggggcg 300
taaaactgct gacgttctgt tatggaaaga caagaaaact tctgctgttg taataggcgg 360
cgcaactgtc atctgggttc tgttcgaagt gcttgattac cacctnctga cctgatatc 420
ccatgtactg attggtgtgc ttgccacctt attcctgtgg tccaaagcaa ccacg 475

<210> 32192

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-D10

<400> 32192

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catcgacggc gtcgccatcc gtgcgtgta cccgcccgcg ctcgccaggc gggcgggggg 120
aaacctgctc aagaacggcg ggttcgagga gggcccctac ttctgcccg gcgcgtcctg 180
gggcgtgctc gtcccgcaca acatcgagga cgaccactcg ccgctccccg cctggatgat 240
cgtctcgtcc aaggccgtca agtacgtgga ctccgcgcac ttcgccgtgc cccaaggcgc 300
gcgcgccgtc gagctggtgg gcggccggga gagcgcgctc gtgcaagaag gtgcgcaccg 360
tgcccgggtg 369

<210> 32193

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-D11

<400> 32193

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 caacaagcta attaaggccg gtccatccct cttctagctc gtttcattat ccatggctga 120
 tgagaagcac caccaccacc acctgttcca ccacacgaag gacgaggagc aggccgcggc 180
 cggcgggtac cgcgagtccg acgagtacac ggaggccact gtgacagagg tcgctccac 240
 gggcgagaac gagtacgacg agtacaagaa ggatgagaag cagcacaagc acaagcagca 300
 cctcggcgag gccggcgcca tcgacggcgg cgccttcgca ctctacgaga agcactacgc 360
 gaaaaacgac ccggagcac 379

<210> 32194
 <211> 453
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-048-Q1-K1-D2
 <400> 32194

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 cggcttcgcg ctcttctccc cggccatcgg gcccttcaac ggcggtgtgc gccgcctctg 120
 cgccgcgctc ggcccgctcg tgggtgtcgt caactaccgc ctggccccgg agcaccgctg 180
 gcccgccgcc tacgacgacg gcgtcgacgc gctgcgcttc ctcgacgccc gcggcggcgt 240
 cccgggcctg gacgacggcg tgcccgtcga cctcggcacc tgcttcctgg ccggggagag 300
 cgcgggcgga aacatcgctc accacgtcgc caaccgctgg gcggcggcgt ggagccgctc 360
 cgcgcgggcc cttcgcgtcg cgggcgtctt ccccgtgcag ccctacttcg gcggcgtgga 420
 gcgcacgccg tcggagctgg agctagaggg cgt 453

<210> 32195
 <211> 269
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-048-Q1-K1-D3
 <400> 32195

cccacgcgtc cgcccacgcg tccggtgcta gtggtgacta ccagactgc actgaccaag 60
 cttatgaaaa ggcagttgcc gatggtgcgg atgtcattga ctgtcctgtt caagtgacta 120

aagatggcat actgatatgc atgaactctg ttgacctaat ggatgttact actggtgcaa 180
aatcacaatt tgcttcgcaa gtgactacca tcaacagtct gaaggctggg tctggagtct 240
ttaccttcaa ccttacttgg gatgatatt 269

<210> 32196
<211> 333
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-048-Q1-K1-D6

<400> 32196

aaaaaggact gcgaccccgct ctgcaagaag tgcgtcgctg ccgtgcacgc ctccctactcg 60
ggcaacaaca agttcaggtg caccgacacc ttccctcgga tgtgcggccc caagtgctag 120
atcagagagg aagaacgcgc gctgctgcta gctgctatag cttcgttctt ccgccgncgg 180
ccggtgcatg gttcacgtac tgtgtgttgt gctactacga tacgtactgg cttcttgtgt 240
gttgggttct tgttcttctc tcgacagtgc accttgccgc ccaacaataa accgtgggtt 300
gccatgaata aatagtacta tgaagttatt ggc 333

<210> 32197
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-E10

<400> 32197

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ctgcggcggc tggagagcct cgccaagcac ccccgctcc agatcctcct cgccaacgaa 120
atccgcaacg ttgaagcgaa gttggcgaag gcaaccgaac catcgctga gccactggcg 180
gcggcttctg cgccagcgcc cgcgcccgt ggcgctcctg ttttaagcta cgtcactctt 240
gggtcgttca gctgggagca ggacaacgag aagattagga tatatgtttc cttgagggga 300
gttgagcaag agaaggtgga gactactttc aagccaacat cagtggatat aaagtttcat 360
gatgtcaaag gcaagaatta ccggtgtgct ataccaaagc tgaac 405

<210> 32198
 <211> 432
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-048-Q1-K1-E11

<400> 32198

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atcttcaagg tcctgaagca ggtgcacccc gacatcggca tctcctccaa ggccatgtcc 120
atcatgaact ccttcatcaa cgacatcttc gagaagctcg ccggcgaggc cgctaagctc 180
gcccggtaca acaagaagcc caccatcacc tcccgcgaga tccagacctc cgtgcgcctc 240
gtcctcccag gagagctcgc caaacacgcc gtctccgagg gaaccaaggc cgtcaccaag 300
ttcaccagca attgagcagc ctncagcgtc cacggatttg ttaggtctcc ctttcttaca 360
agggttcttc gtcgtgtcct ctacccttnc cctccccgcc tatgtatgtg ctgtgaaatc 420
gttgatgttc tc 432
  
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<210> 32199
 <211> 186
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-E12

<400> 32199

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gtcttccccg gcctcgtcac tcggatcaca ccgtccaagc ccaggtagat cgggtggcgat 60
ccatcggtcg tcgtgaaccg aacagaatgc cgtcgctgac ttgctgcggt gtcgtcaagc 120
accccgatgat ctgcatgccg agtacgtact acgggtgtgca gactgcactg cacagggatc 180
ggagag 186
  
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<210> 32200
 <211> 477
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-E3

<400> 32200

ctcaagtcac agattgcaga tagcaaagca agctattggg aacgacgctc cgacaaccac 60
 cgcacgcctc aggtttggct agtagacagc atcgacgacg aggaacagaa gatggcaccg 120
 aaaggagccg tattcgtctc aatctcacag ttcccatca agaaaatccg caaggattgc 180
 acctacctga gactccagc aatgaagatc cctgaaacca tgcaaaatat ccatgcctgc 240
 gagaactggc tgccaagacg ggtgatgagc gcctggcgca tcggcgggat acttcacgcc 300
 ctggaagggt ggaccgtgca cgagtgtggg gacgccatgg tgcattgctga gaaagcatgg 360
 tcagctgcta ttaggcacgg attcgttctt ttgacgaaag cctgaaagcc tgtacgcaac 420
 tctagacgcc attcgacgat ggctggaaaa ctacgtttca gcaatcggtg gcacaaa 477

<210> 32201
 <211> 485
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3068-048-Q1-K1-E4
 <400> 32201

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 ggtgcgcgtg gccaccgtgc tcaacgagaa gggcctcgac ttcgagatcg tccccgtcga 180
 cctcaccacc ggcgcccaca agcagcccga cttcctcacc ctcaaccctt tcggccagat 240
 cccggctctc gtcgacggag acgaagtctt cttcgagtcc cgtgcgatca accggtacat 300
 cgccagcaag tacgcgtcgg agggcacgga cctgctcccc gcgacggcgt cngcggcgaa 360
 gctggagggtg tggctagagg tggagttcca ccatttctac ccgaacgcgt cgccgctggt 420
 gttccagctg ctcgtgaggg cgctcctggg cggcgcccac gacgcggctg tgggtggacaa 480
 gcacg 485

<210> 32202
 <211> 492
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-048-Q1-K1-E5
 <400> 32202

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caccagacgc gtgaggtttg gctagtagac agcatcgacg acgaggaaca gaagatggca 120
ccgaaaggag ccgtattcgt ctcaatctca cagttcccca tcaagaaaat ccgcaaggat 180
tgcacctacc tgagcactcc agcaatgaag atccctgaaa ccatgcaaaa tatccatgcc 240
tgcgagaact ggctgccaag acgggtgatg agcgcttggc gcatcggcgg gataacttcac 300
gccctggaag ggtggaccgt gcacgagtgt ggggacgcca tggatgatgc tgagaaagca 360
tggtcagctg ctattaggca ctgattcgtt cctttgacga aagcctgaaa gcctgtacgc 420
aactctagac gccattcgac gatggctgga aaactacgtt tcagcaatcg gtagcacaaa 480
ttcttcccag ct 492

<210> 32203
<211> 487
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-048-Q1-K1-C2

<400> 32203

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ctccgttgcc gatgcgccct tggctcgtcgc gcacaaaagg gtttcgctct cccgccccaaa 180
gccgggcgta gagcgcgtcg ccgtctccct ggacctatac aaccagggat ccgagactgc 240
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agagaactcg acgacattga aaaggcttga ccctggtgcc actggtacac acacatatgt 360
cctggagacc aaaacacagg gcagtgtcca gggttcacca tctattatta cgtaccgtgt 420
tcccacaaag actgctcttc aggaggccta cttaactgcc atcttcccac tggatattct 480
cgctgag 487

<210> 32204
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-H12

<400> 32204

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accacctgtt ccaccacaag aaggacgagg agcaggccgc ggccggcggg tacggcgagt 180
ccgccgagta cacggaggcc acggtgacgg aggtcgtgtc cacgggcgag aacgagtacg 240
acgagtacaa gaaggaggag aagcagcaca agcacaagca gcacctcggc gaggccggcg 300
ccatcgccgc cggcgccttc gcactctacg agaagcacga ggcaagaag gacccggagc 360
acgcgcaccg tcacaagatc gaggaggagg tcgcggcggc ggccggccgc ggctccggcg 420
gcttcgcctt ccacgagcac cacgagaaga ag 452

<210> 32205

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-H2

<400> 32205

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aaagaagctg aaccatgggg aagagaaagt cagctgctaa gccacctcct aagaagcgga 180
tggaacaagt tgacactgtc ttttctgcc cattctgcaa ccacgggagt agtgttgagt 240
gccgaattga catgaagaat ctgattggcg aagcatcttg tagaatctgt caggaaaact 300
tcagcacaac tgттаатgca ctactgagc ctattgatat atatagtga tggattgatg 360
agtgtgagcg tgtcaacact gttgaaggcg acgatgatgc gtgagcttgc cccatgcgat 420
gaaac 425

<210> 32206

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-H7

<400> 32206

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ggtgtgtcga aaaacatgtc tgtgattttg ttatatgaat gtaacgcgca atgaaacata 120

caggactagc tgcttgcttg acgatgcgtt tgcgtgtatc cgtataaatt aaaggctata 180

agccacaata aaaaggatta tgacttaaaa gcgttcaaga aataaaaaa cacaaaagaa 240

aatataagcc aatggcattt aaaaccaagc gcgatgacca atttgtgtga atcaacggaa 300

tcctctcgaa ctaggttgaa attactataa aggggcggcc attttaaagg gtcaaactta 360

actgtcttac gacggactat atta 384

<210> 32207

<211> 370,

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-H9

<400> 32207

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catgaatatg cccaagagat tagagagacg gccaacctga gtatcttgct ctgttgcggg 120

gttttgcttg cttatgaagc tgtgtatggt gattctgttg ttgtatgttt atgagtaggc 180

tctgactagc gaggatattc tgagtgtaga acgtcgaatc tagatTTTTT gagggctctga 240

tgttgtttgc cattgtcggc cggcattttt gtattgctta ttgcgaggat ttctgtttct 300

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gtgttggtt 370

<210> 32208

<211> 155

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-A1

<400> 32208

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gagatgtttg atctgcacaa tgttgtcata tctatactc tgctgcagt tcgggaggct 120

ccaagtgtca aacagattga tggaaagtgg aagtt

155

<210> 32209

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-A11

<400> 32209

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gagccatgtg aatgaaagca tgattactgg agaatcacgg ccagtagcga agaggaaggg 180

cgatactgta attggaggaa cagtgaatga gaatggtgtg ctgcatgtcc gggcaacatt 240

tgtcggatca gagactgcac tggcacagat cgtaagacta gttgagttcg cacaaatggc 300

aaaagctcct gtccagaagt tcgctgatca gatatctaga gtctttgtcc cactgggtat 360

cgttctctct ttgcttactt ggcttgtgtg gttcttagct gtgagattcc atggttaccc 420

atacttatg 429

<210> 32210

<211> 99

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-A4

<400> 32210

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<210> 32211

<211> 144

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-A6

<400> 32211

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agtatgggtc ttgacctatc taaaggtatc gttcgcaaca accttgagta tggcttggtta 120
aagccttcgt tgagcaaagt gaaa 144

<210> 32212
<211> 84
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-A7

<400> 32212

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aggaaaaaat tataaaaaaa aaaa 84

<210> 32213
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-B10

<400> 32213

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gagccatgtg aatgaaagca tgattactgg agaatacacg cagtagcga agaggaaggg 180
cgatactgta attggaggaa cagtgaatga gaatggtgtg ctgcatgtcc gggcaacatt 240
tgtcggatca gagactgcac tggcacagat cgtaagacta gttgagtccg cacaaatggc 300
aaaagctcct gtccagaagt tgcgtgatca gatattctaga gtctttgtcc cactggttat 360
cgatctctct ttgcttactt ggctagtgtg gttcttagct gggagattcc atggtt 416

<210> 32214
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-B11

<400> 32214

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taaagaaaaa aaaaaatgct aaagctagtc tttaaagata atcaagaaca aactgagaac 120
 tgagacacaa acaaggggtg caacgggttt caggattcga gatttcttgt cccatgggtg 180
 aaagctttaa ccatctatat cgggtcagtt aaataagtgc aatggccttg tttttaaaaa 240
 cctgttaatg ggaaaaccct ggggggtttcc aaatttaatc cccttgaaaa aaatcgccat 300
 ttgccaggtt gagaaatddd gaaaaag 327

<210> 32215
 <211> 477
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-048-Q1-K1-B2

<400> 32215

cggacgcgtg ggtggcgcgc tccgatccaa gagatggcgg tgccgctgct gacaaagaag 60
 atcgtgaaga agcgggtcaa gcagttcaag aagccccatc ttgaccgcta taagtgcctt 120
 aagccaagct ggcgccagcc aaaggggtatt ggactccgtg tcaggaagaa gttcaaggga 180
 tgcaccttga tgcccaacat tggttacggc tctgacaaat caaccaggca ctaccttccc 240
 aataagttca agaagtttgt ggtgcacaat gtctctgagc tggagttgct catgatgcan 300
 cacagaacct actgtgccga gatcgcccac aacgtttcaa ccaagaagcg catggagatt 360
 gttgaacgtg ccgcgcagct cgacattgtg gtcaccaaca agctcgccag gtcctgcagc 420
 caggaggatg agtagtctgg tttcttgtca taacggncaa ctagatcctg ccattcc 477

<210> 32216
 <211> 490
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-B4

<400> 32216

cccaggtctc taggcgacta cgtgatgacc tgctgaagat caaatcagag gtcctcagc 60
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 cagcaccagc accagcacgt cgtcatctga ataaccagc ccagtccttg gactgcgaga 180
 tctctgaacc cccagctcat cagctcacag gcacaaagga gaacagtctt aagggtgaaac 240

tgctgcaagc aaggctagag gggcagcacg ctgggctgag cgcgtcagtg ttccccctga 300
tcagcacaag aaggaagtga tgccactcgt gagcttccat gatttcgata cgcaacacag 360
agttgcaatt gtaagatagc tgaatattgt tagctcgagg caattggact cgggtgtgaat 420
cctagatcca gccgcgtatg ttgtagattt gatctgctaa ctgtcagact agaatcgaat 480
caagatggac 490

<210> 32217
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-B5

<400> 32217

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ctgaacctcc aagcagcaag cgatgaatgg aaggacgcaa gcaattagcc tgatgggtgca 120
ccttgctgtg ccatggctct gccttgcttc ttgggcagct ctgctaccag cgctactagc 180
atctggaaat gtgggtgcag cagcttcgac actgagagca gagtacatga atttgaactt 240
tagcaccgct tcggcgaccc ccgacaagta caagagcttt atcgcttctg ttcgtgctgg 300
cttggtgagc aaagcggggg gcaacagcag cgggatcccc gtgct 345

<210> 32218
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-C10

<400> 32218

gtatttggca cttgtcatca ttggattcct gcatgggctt atcttcctac cggtcctttt 60
gagtttatgt ggccctacta caaatcggc gaagccaaaa gaacaaagtc agccaccttc 120
agcttcaagt gagcggactt gacaggattt tatttgagtt ggacgggttac atactaaaaa 180
attgaaatag gctagcttgg tcggtgtgct tccatgtgct gtcccagtggt agcagcagca 240
gtgaggtgta cagcatttgc tgaatgtgaa agcagcttta cagatctgta gaaaatgttg 300
tgtatatcca tgttagcagc cgaactgtta tttggtgtac agtgctacac at 352

<210> 32219
 <211> 446
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-047-Q1-K1-H11

 <400> 32219

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 cgcgccctacg tgtttctcgt cgtgctcctc ctggccgctg tcatcgtggc accgttcgcg 120
 ggagcgacgc gtgtcgacgt cgttgagggc aggtccatgg cgtccgccga cgcgccggag 180
 gccgccgcac catcacccgg gcctggctcc gcctcgtcac cggactcctc gtcggatgcg 240
 ccctcgagca gcagctcctc ggactagata gctagccgct tgaccgacga tctcgttctc 300
 catctacacg gcgatcgagt tctagctttg tcgacatgca atgcaaaatt ccgattcttc 360
 gggaataatc aagccccaaa ggaatgtgcc tggatcactc actactagta ccttggtttt 420
 atatatgttt tctcttctga cgctct 446

<210> 32220
 <211> 409
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-048-Q1-K1-C12

 <400> 32220

 atgcactcag tgcgaaggct actcatgcat atgaggatgc aagaagaaaa gttgcaaattg 60
 ttgtcaacgc agctgatagc agagagattg ttttcactcg taatgctact gaagctatta 120
 atctggtagc ctattcatgg ggactatcta acttgaaaga aggagatgaa attgttctta 180
 cagttgcaga gcatcatagt gctattgttc catggcaatt tgtttccag aagactggtg 240
 ccaccttaaa atatgttgga ttgactaaag aaaatgtccc agacattgag cagttaaaag 300
 ggtttctgtc gaacaagaca aagatagttg ttgttcatca tgtctcatat gttctaggtt 360
 ccatgcttcc tatcgaggag attgtaacat ggtcaaacag agttggagc 409

<210> 32221
 <211> 284

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-047-Q1-K1-F1

 <400> 32221

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 agggggcccg cggtgccgga tccgctgtcg aggcaggggt cgatctactc gctcacgttc 120
 gacgagttcc agaacacgct cggcgggatg gggggagggc ttggcaagga cttcgggtcc 180
 atgaacatgg acgagctgct gcggagcatc tggaccgccg aggagagcca ggccatggcg 240
 tcngcttcgg cctcggcctc ggccctcggg tccgcgctgg gggc 284

<210> 32222
 <211> 440
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-047-Q1-K1-F10

 <400> 32222

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 caacaagcgt gaaccatggc ggacgagtac ggccgcagcg gctacggcag gtccggcgcc 120
 ggcgacgact acgacagcgg ctacaacagc aagtccggca ctgatgacta cggccgtggc 180
 gaaggtggct acaacaagtc gggcggcgat gacgactacg gccgcagcgg cggcgatggg 240
 tacggcaggt ccggcggcga cgactacggc cgtggcaccg gcggcggtgg ctacaacaag 300
 tccggcgcg gagacgacta cggccgcagc ggcgcgacg actacggccg tggcaccggc 360
 ggcggcggtg acaacaagtc cggagacgac ggctacgaca gcgggtacaa cagatcgggc 420
 accaccaacg acgacgaata 440

<210> 32223
 <211> 198
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-047-Q1-K1-F11

 <400> 32223

ctgagtttga tgaggggtgag gaaggtgatg atgggtgatga gtactagaag tatectgatg 60
 cggtcacgtg caggcttggtg tgctgctctt gtccccgttg tggtttgcaa cacctgatgt 120
 tgtaagactt tctggttatg tccgccccgc tttgccactg ggttattaag aacgtcgtta 180
 tggatgggtg tctacact 198

<210> 32224
 <211> 322
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-047-Q1-K1-F2

<400> 32224

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 atattcaccg tcggaaatgg ggcacctgat ccctgggctg ccggatgaag tggccaggga 120
 gtgcctcgtc cgggtgggct tcgaccagct gccggtggtg cgccgcatct cgcgccagt 180
 gaagtcggag gtggagtcgc cggactacca ccgncagcgc cgggcggagg ggctggcgcg 240
 cccggtgctc gcgctggtcc aggcgcaanc gacagcgccg ncggatgacg acgacgacgc 300
 cggccccgtg cacaagcgct cg 322

<210> 32225
 <211> 269
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-F3

<400> 32225

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 gtagtggatc tgtctggtct gctaaggggtg ccaaacctta ttgtttggca aggtgatgcg 120
 ctagaagact ctccatgcat atgctgctgt tcagctaaag ctgcgactgc acaagcaaat 180
 ccaccagaag aagctgcttc agcggtcgtt gtcatatcac catcatcaaa aggccttgaa 240
 ggaattgatg acggtgtagt gcttacaca 269

<210> 32226
 <211> 383

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-047-Q1-K1-F4

 <400> 32226

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 tcaatccccg gcgggtccca cccatctccc gcaggaggag cgacacgggg acgccccggt 120
 accgccccgc gtctccggcg aaccgcgcgc cgcagcggag gcgggcggcg agatcgccgc 180
 gctcgacaag cagctcgccg tcgtcggcgg cggcgaggag aggaggccgg ccggggccgg 240
 ggccggggcc gccagcgcag gcgggggaag gaagctggtg gcggaggcca tgcgcaagta 300
 cgctgccccg cggtcgtcgc gcttcacagg cgtcaccagg ctcaagtga gcggcaagta 360
 cgaggcgcac ctttgggaca aca 383

<210> 32227
 <211> 231
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-047-Q1-K1-F7

 <400> 32227

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 cgcaacgcaa tggcgctcgc caccaactcc gccgctgccg cagcagctgc cgtatccggc 120
 ggcgcgcat cccagccgca ccgcgcggcc acgttcctcc cgctgaagag gcgcaccatc 180
 tccgcatcc acgccgccga cccgtctaag aacaacgggc ccgccgtccc c 231

<210> 32228
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-047-Q1-K1-F8

 <400> 32228

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 ctagttctcc catttcttc cccacctcgg tcgtcgctc cccagagag caggagccgc 120
 ctcgtccctg ccgggtccga ccccgacccc catcccgctc gcgtccaacg ccatgaatcc 180

cgagtacgac tacctcttca agctgctcct catcggggac tccggtgttg ggaagtcttg 240
 cctgctgctc aggtttgcgg atgattcata tctggagagc tatatcagta ctattggagt 300
 tgattttaaa atccgcaccg ttgagcaaga tgggaagaca ataaagctac agatttggga 360
 tactgctggc caagaacgct ttaggaccat cacaagcagc tactaccgtg gagctcatgg 420
 cattatt 427

<210> 32229
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-G1

<400> 32229
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 tccaagatga gtgttccaag tttggtgcag tgaagcatat ttttgttgac aaaaatactg 120
 caggctttgt gtatctgcag ttcgatagcg tgactgcagc agcaaaggcc caaaatgccc 180
 ttcacggaag atggttcgct gggaagatga ttacagcgac atttatgtcc gctctggagt 240
 acagtacgaa gttcccaaac ttgtgagcat atgcccggaa gaagtggcca gacctgcata 300
 gttcggttgg agtattcgca agtgcttgat cgttggatgg tagacgaaca cttattgat 360
 tgtatgacag gatagttgca gcaccgggcg tcaactatcag tacaatgctt gatgtacttt 420
 attta 425

<210> 32230
 <211> 81
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-G10

<400> 32230
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aataaaaaaaaa aaaaaaaaaa aaaaaaagaa 60
 agggggggaca atataaagag c 81

<210> 32231
 <211> 451

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-047-Q1-K1-G12

 <400> 32231

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 agcttttgatt atcaatacag tagatttttc ttgggtcttg accatattca gagggagggtc 120
 acaaaagacc ctctggctac aatttcagtg ggtttgtcat aggcttaatt tttttattag 180
 caaattgttc tggacttgtg tcaccaagca tttttgtaag ggtgagagta ataattat 240
 tgtaactagc taacatcaag cattttcttg gcttcttcaa cattttttca tctgttcttt 300
 tctgatctga aagctgcatg aattagtcct gcattcctat acaggcaata gttctgttac 360
 ttcagctata taatttatat ggcaaataca cgttacaaag ttgcatttct tcacagccat 420
 atcttcatga gtcccgacat cgtcatgcc a 451

<210> 32232
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-047-Q1-K1-G3

 <400> 32232

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 aggcccgct ccgtcccgtc cagcctccg cctcagcgtc cacctcgccg gagctgctcg 120
 gcaagtccgc gctccgccgc atctccgaca agctccgtag cctcggctac ctcgagaccg 180
 tctccgagcc cccactccg gccccgaaca agagcgggga cgccccctcc cccggcgaga 240
 tattcgtgcc caccocggcc cagcttccgc gccaccgct cggtccacc ctagaccgca 300
 gctgggccac gggcgacggt gaggttagct ccacctcgcg gcagcggcgg aggggccgcg 360
 ggcgcgatgc gtcggggtca ccttcggcgc cgccgtccgc ggcggagttg gcgctaccgc 420
 gggacga 427

<210> 32233
 <211> 316
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-G5

<400> 32233

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gattctgggc gtggtgctgt gttcacaaac accagtctgt cagtcctgtg ttgtgtattc 120
tgcttttcga tacagatttt ggaccaatca aatcctgcat tgcgctgctt gccagctaga 180
aaactcctac ttcggacccg aacaataacg gggactctac ctttcctgc gagatattct 240
tgaccacacc cgagcaaatt ttcgaggcac cgcgtacggt tcaccctttt aaacaagggtg 300
ggccactttc gaaggt 316

<210> 32234

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-G7

<400> 32234

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tgtttcacct aggaggggac gtggtagccc atcaccacgc aggcgctccc ctgggcctct 120
taggcggcgc tcaccacctc caaggcggtt gagaagccca ccaagaaggc caccacctcc 180
acgtcgcttc agtcgctctc ctctcgccg accccttcgc tcccgtcca gatcaatttc 240
tccaagaagg ggacgagggc ctccattgag gcgtggtagg tcagactcat catattctcg 300
atcacctact ccaccaagaa aggggccaag gagggtatca aggagccgca gccctagaaa 360
gcctcctaga ggaggaagaa gcgtctccag tgacagccgc agcagcagtt caccttcccc 420
ta 422

<210> 32235

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-G8

<400> 32235

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cttacaaaga tggtcacaaa gaatcacgga gtaagggagg gattagcaac tcacacaaga 120
 cacaaagatc acagcatatt cgcacacaca agactcagac ttaagctcat gagactagca 180
 cactataacg gaggtgttct ttttagctta gctaggaatg caaatgactt gattcgttgg 240
 aaaaaaaaca aaaataaaaa aaatataaaa aaaatgacta atatgaaaaa ttaaaaaaag 300
 aaaattattt aaaaatgaaa acaattaaaa 330

<210> 32236
 <211> 298
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-G9

<400> 32236

aaaaatacaa ccataaaaca aaaaaaattc caatcaaaaa aaaaaataaa aacaacaagg 60
 agaaaggaca aattcaataa aacaacagcc aataacttaa aaacctctat cactacacgg 120
 ccctcctcct attctgacct tttttacctt cccaccctt ccaactactt agcttttctt 180
 tgccacaact tccttcactt ccattgcccc cccttttaca actccggggc tcgaaaacct 240
 tatggacctc aaaccttatt ccctttccag actatcccct tttctccaac tcacttat 298

<210> 32237
 <211> 454
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-E9

<400> 32237

cccacgcgtc cgcccacgcg tccgcccacg cgtccgcca cgcgccggg aactgtgact 60
 agaactagta gatccaatcc aacactcggg acgaaattaa aggagacgac gcatcatccg 120
 gccggcaggc atcgcacggt caccaccatg gcggcgagg agggcggcag gaggtgtgtg 180
 tcgcacccga tcgcggcgca cgacgggagg ctgccgcggc agtacacggc ggaggggcag 240
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 tcgctggcgc tgctgggtgca ggacatcgac gccgaccccg tcgtgccgtg gacgcactgg 360
 gtggtggcca acatcccgcg cgccaccagg ggcctccccg aggggttctc cggcgccgcg 420

ggggcggggg cggtggcggt ccgcgaccag ctcg

454

<210> 32238
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-H1

<400> 32238

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atcgtttttc cccatctccg ttggattttc tgcacgagt actttcagt atctgaaggt 180
tactggaatt ctctctctga aggaaagcaa cccttccaag ttttctcaac gggctcgggt 240
ggtcactggt aacttcccaa gtggttaaac cctggaccg tgagggtgtg tccactggaa 300
ggttccaata ccaaaggtaa ttgcgggac ctattccagc cattggaccg gagaatattt 360
tggggttgga aaaattcttt accaatcgcc tcttaatg 398

<210> 32239
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-B4

<400> 32239

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ggatgggcta tgaggatgag cctccagaac ctgagattga ggaaggggcc gaagaagagc 120
ttgagaacaa cgaagatgcc cctgatgatg tcataggtgg agagggtgaa gataaggaac 180
aggaaaagac caagcgtgag cgcaaaacaa caaatatat gacgaagtat gaacgtgcgc 240
gcattcttgg tacacgagcc ttgcagataa gcatgaatgc tccagtcag gttgagcttg 300
aaggagaaac tgaccctctt gagattgcga tgaaagagct tagagcgcg aagataccct 360
ttacgatcag acggtaccta cctgatggaa gttatgaaga ctggggagta gacgagctca 420
ttgtg 425

<210> 32240
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-B5

<400> 32240

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aagaggaaat tccttgaagc ggggtggaggc aaatacggac tgccgtgtgc taataagagg 120
tcgtggcagc atcaaagatc cagcacggga ggaaatgatg cgagggaagc caggatatga 180
acacctgaat gaaccctcc atatttgggt tgaggcagag ctacctgttg aaatcattga 240
tgcgcgctg atgcaagccc gcgagatcct tgaagatctg ctaaagcctg tggatgaatc 300
ccaggactac ttcaagaagc agcagctacg ggagctcgca atgcttaatg gcacccttcg 360
tgaggaaggg atgcagagat ccggttcaac gtcccctttc cacaacagcc ttgggatgaa 420
gag 423

<210> 32241
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-B6

<400> 32241

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cggactcatc tactgagcag cgcggtgggc atccgagcga gagggcgagc gcggaaggat 120
cggaattccg aaggttgggc atggaggcga gcggcgagaa ggctgcggtg gtgcgacggc 180
tgatggaagc gaaagaagtg ttcgggaaga ccttctcggg aatcgccgcc gagacgggtc 240
tcaccaacgt ctacgtggcg cagctgctgc ggcgccaggc gcagctcaag gccgacacgg 300
tgcccgcgct gagggcgggc ctgcccacgc tcacggacga cctcatcgaa ctcatgatgc 360
agccgccctt acggctcctac caccccaaca tcgtccacga gcccgccatt tacagattga 420
atg 423

<210> 32242
<211> 421

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-047-Q1-K1-B8

 <400> 32242

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 acatgggcta tgaggatgag ccttcagaac ctgagattga ggaagggggc gaagaagagc 120
 ttgagaacaa cgaagatgcc cctgatgatg tcataggtgg agagggtgaa gataagggac 180
 caggaaaaga ccaagcgtga gcgcaaaaaca acaaaatata tgacgaagta tgaacgtgcg 240
 cgcattcttg gtacacgagc cttgcagata agcatgaatg ctccagtcac ggttgagctt 300
 gagggagaaa ctgaccctct tgagatttgcg atgaaggagc ttagagcgcg caagataccc 360
 ttacgatca gacggtacct acctgatgga agttatgaag actggggagt agacgagctc 420
 a 421

<210> 32243
 <211> 323
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-047-Q1-K1-C10

 <400> 32243

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 ctgggggtca cagatactgg aagctaattg atcgatgtat agaattcaat ctgacttgat 120
 catattacct aggtgcatcc tttggtatat gcttatatac gtcgaatctt gtagaggctt 180
 actttaaaat cattcaattg tataatgatt ttggcacatg aatcaataga atatataaac 240
 atccaagctg actcaagggc aattgcaact ttgatgctga taacaaatat tcttactaac 300
 agtttttcat gctgggtaat att 323

<210> 32244
 <211> 164
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-047-Q1-K1-C11

 <400> 32244

ctgactcgtg ggaaaaaaaa aaaatttttaa aataaaaaaaaa aaaaaaaaaa aaaaaaggga 60
 ataatttata aaaaaataaa aatattaaat acataaaaat aataaattat taactattat 120
 ataatttaac aatatattaa atttattatc ctatcttttt ataa 164

<210> 32245
 <211> 66
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-C12

<400> 32245

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg acaaacgcgg 60
 gtatgt 66

<210> 32246
 <211> 383
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-C7

<400> 32246

gcaggatcac gctggcctgc gacgcggcgg tcatggagta cgccatgtgt ttgctcagga 60
 gaggagcctc tgccgagcta gagcaggcgt tccttagcac catggccatg tcatgccact 120
 gtgccagcta catggcgccg tatgttggac gagccaggca gcatcagatc gttgtttagt 180
 tagttgctgt tccgtgtatg tagacgtgta gtgtagagcg atgattttta ctaggtgggt 240
 gctattcaaa gccttctgat ccagcaaccc atcaaatgag gtgttgtaag tacaagagaa 300
 taaagagacg tgattcttgc ttgaaaaa aaaaacttaa ctgaggaaaa gctggaaaaa 360
 agtatatgga cagtaagaat att 383

<210> 32247
 <211> 131
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-C8

<400> 32247

ggaggatcac gctgacactg agacgcttcg gttatggaat acgacatgag gacacggggg 60
 atgagagcct atagctagcc cgagcaagcc taacttaaca ccatggacat gttatgccac 120
 tgatccagct a 131

<210> 32248
 <211> 284
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-D1

<400> 32248

ccacgcgtcc gaaaaaaaaa aaaaaaaaaat taaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
 tgaaaaatat aaaaaaatta acaaacataa aaattattta aaaaattata aaaaaaatca 120
 cacctttcta taaccataaa gatatttaat tatacaataa actgtattaa ataaactaaa 180
 aaaattgggt cactttttta aattatactg ttttgtacat ctcttgtcta tacttgattt 240
 ttttttttat tgactcttaa aacaattttt tgactcgggt tttt 284

<210> 32249
 <211> 242
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-047-Q1-K1-D2

<400> 32249

cggacgcgtc cgcccacgcg tccgcacata cacatgcaca agcgcactct agcaatggct 60
 gatgaggttg tccgccttag cgacgccgag ctactaaagg cacaagccga catatggcgg 120
 ctcagcctct gctacctaac gcnctgtca ctgaggtgcg ccgtggagct tggcatcccc 180
 acggcgatct accgccatgg cggggctgcc tcagccgctg aagctgtcac ggcgctgtct 240
 ct 242

<210> 32250
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-D4

<400> 32250

ctgcgagcta cagtccaaca tcagcaagct gcagtactac atgaccaagg tacagcccta 60
gagatgctag ctatagcacg acatgaacaa gctacagcgc caccttacca gttgatagcc 120
caacgttacc agctatacag gcccacatca accgcttaca gccgcacatc gccgtcctac 180
agtgcaactt gaccatgtta taggcctaca ttaccttcat acagccgtac gtgcccttta 240
tacagcccta cgtaccgctg atacagacct acctagcgt gctacagccc gacatgacct 300
gcttacagcc cgacattacc aggatacagc ccaacgggac cgaactacag tcctacatct 360
ccgagctaca ggcctacatt tccgagctac aatccttcat cagtcaagta caggccttta 420
c 421

<210> 32251

<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-D7

<400> 32251

cggacgcgtg ggcggacgcg tgggaaaaaa ttaaagaaga aacaacaaaa aacgggagac 60
gggaaaactg aaacaatagg acagaaaact tggggcacct aacgccctac cgtgggtcgt 120
tgcggggtgc tagcataggc tcccccttgc tgcttggatc ctgactttaa atgccttcac 180
taatattccc gcacacggta gcttttaacc actggctggt caaccaaacg cgatgaccaa 240
ctgtgtgaat caaccgttcc tctcgtacta aggttaaaat gctactcgcg 290

<210> 32252

<211> 62

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-D8

<400> 32252

cccacgcgtc cggttttttt tttttttttt ttttttttta tcggtctttt tataggatcg 60
gg 62

<210> 32253
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-E11

<400> 32253

gagagaaaca atcaggggtc catccatttt tgtcagccat gacgaacggc tatctggtcc 60
 gcgagtacat cggcgcgag tccaccggcg tccagttctc cgacgtgccc atcaacgcct 120
 tcgttagctt ccacttcac ctctccttcg ccatcgacta cacgcccgtg gggcagcagc 180
 cgaagccggt gccgaccaac ggggtgttca gcccgttctg ggacacgggc aacctgtccc 240
 ccgcccgcgt ggccgctata aaggcctcgc accctaacgt cgccgtcatg gcggggctcg 300
 gcggcgacag cgtgcaggac atcgtcaagg ctttcttcac cccgacctcc gtcgacacgt 360
 ggggtggcaa cgccgtgacg tcgctcacgg gcatcattaa caggtacggg ctggacggcg 420
 tggacgtgga ctacgagcac ttcgccgac 449

<210> 32254
 <211> 184
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-E12

<400> 32254

gtgagacaca atacgaggtc catgcattcg cttcagtcac gactaacggc tatcgggtcc 60
 tggagtacat tgtcgcgcag tccatcatct tccagatcta cgacgtgccc atcaacgcac 120
 ttgttagctt acacttcac ctgtacttcg acatagacta cacgctcatg tttcatcatc 180
 tgaa 184

<210> 32255
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-E4

<400> 32255

cccacgcgtc cgcttaagtt gttgtcgtaa aaaaaaaaaa ataaaaacct acaataaaaa 60
 gtgacaaata acaaaataaa ataaaaaaca aatacaataa aaataaccta caaaatcaac 120
 taccacatac aaataaagca acaaacaaca caaaataacc aggcctgact ctttaaaggt 180
 acccacttta aataacagta cctcacactt aaaaaccttc ttaaaggtaa tcattacaat 240
 attaatccct caactattat acaacgtatg gcttgtaaaa accctgcatt acccaaaatt 300
 aaatctctaa tagcaaatcc cctttttgct gccttttaaaa aacccaaaaa tccccaccc 360
 tatcgctttt tcaaa 375

<210> 32256
 <211> 277
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-B12

<400> 32256
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 gtgaggggat cgtgcacggt ttcggcctgt acggcctgaa acgtgccggc gtcgtcctcc 120
 ttctgagagg cccggctgac gatgcgcaag acggtatgcc aacgtcaagt cgtcagccgc 180
 gtcagggagc ctacggtacg gatgctaccg agtgctgtac ctggggccac tgtgaggcta 240
 gacgtctagc tacctgacag gcgagtttcc tttcgac 277

<210> 32257
 <211> 415
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-047-Q1-K1-E7

<400> 32257
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 cggcggcttc gtcttcggca tcctcccggc cagctcgtc ggctccgtag tcaacgccgc 120
 catcctgctc gccctctact ggaaccagct ggacggcgga tgcaagcccg ccgccggagc 180
 ccaggagggtg gtcgccgtgc ccaccgaggt cgtcgaggag gaggacgtca cgtcgcaccg 240
 cttctcgccc ggcaacatgt cgcaccttct ncttcgacgc gccagttccc agcagggtgcc 300

ggccggctac gacgacgcgg cgaatcaaga ccccgtaag ccgccaacg gcgtccacca 360
 cagaaggaaa gcagcgggtga acggcgattg cgacggcgac ggcgaccgct actac 415

<210> 32258
 <211> 284
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-E8

<400> 32258

cccacgcgtc cgaaacatct gtggtttgtg tgtcatgaat cgtggttgtg gcttcgttgg 60
 tttaatggac ctgttgtgtc ctctgtgttg taccctaaac tcttctgcag cagtatggct 120
 tgaatccttg tgaagttacg atgtttgaac ttaaaagtct gtcattatg ttctttttct 180
 ggttatatct cctaataact gcctgggac aaatttgatt cactggtgtt tattggacca 240
 ataataaccc gacaacatgt cgcacctact actacaacgc gcac 284

<210> 32259
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-H11

<400> 32259

tctaccgcag cctcagaatt cccccctccc ccgtagcgaa accctagccg ccacgcaaaa 60
 accaaatccc gccgagcccg aaattttccg gcggggtcct tgccgcgaat cgattgattt 120
 cgagcgattc gactcctttg tgatctctcg gcggggtaga gcgcggtcga ccgtcggcca 180
 tgtcgagggtg ctccccctac ccgccaccgg ggtacgtgcg gaaccagtg gccgtggccg 240
 agccggagtc gaccgctaag gtttgttgaa ctttcggatt tacacacgca cgtgccagat 300
 cgtttgttca atctgtaggt tttgcgcgga tctgtggttt gcgcgtgcgt gatgtgggta 360
 ttgcccgtgc cttgaaagct aaccgagctg aggaagtgtg tggatc 406

<210> 32260
 <211> 331
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-H3

<400> 32260

cccacgcgtc cgggtccaaaa tccagaccgc tggtaggagt atctcgtaga cattgaacaa 60
cggctgcatg gcgagcgctt ggcacacctc catccccctc gtctcggcgc cctctgcatg 120
cccgtccaag aagaccaccg tcgccaggtt ccggcgccgc acggcgacgt gcagggccag 180
cagcggcggg ggcgggtggc ggggcggcga aaatgatggc ctccctttggc tgccccggcg 240
ggacgtgatg ctcaacggcc tgtccagtgt cgccgccggg ctgccttggg accccggcgt 300
cgcgtccggc gcggatgcgg tgtgcaccaa g 331

<210> 32261

<211> 410

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-046-Q1-K1-H4

<400> 32261

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gtgctgacgg cgattagggg tccgaatcgt gtttaagcgc tgcgaaatca ccgtgggggc 120
ttcgtcctcg agtcgtcgtc ctgctggatg tcacctcgtg tcccgcgccg acgccagtgc 180
ccgtcctcgg agccgcctct ctccgacgat cgccggagac ggatacggtc gaagccgtca 240
ctgcaggccg cgctcgtgcg ccgtagcaga tgtctagtag ctccaacggc cattatcctg 300
ctaattggtg aaagattctt catagaaaag aaaagaatat agagaaagta cagctcgaca 360
aanattcagc cacttgggtg tgccagaagg acaggcatta tggtgaaaat 410

<210> 32262

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-H5

<400> 32262

cccgatcagc agctgatcgc tcactcttgc agctcgatca ttcttttagct gctctagctg 60

tagcctctag ccctagctag tagctagcca ctcggtcgtg tagtcatcag ccttctgatc 120
gtcacccatg gccactgccg aggtccagac cccgaccgtc gtggcgaccg aggaagcgcc 180
ggtggtggag accccggctc cgcccgccgt cgtgcccag gaggtgccc ccgcccgcga 240
ggccaaggtg gaggagccag ctgccccggc ggagaccgag ccagctgccg ccgctgagcc 300
cgaggcggtc cccgtggcgg cggaggaaga gacgccaaaa gaagaagaga cggcaaagga 360
agcggaaccg gagccggagc cggcggcggc tgaaaaagtg aaagaggaag cggcagcgcc 420
cgctgccgag acagaagcag 440

<210> 32263
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-A11

<400> 32263

cccacgcgtc cgcccacgcg tccgcagcat cggccactac cacctagcta gcgaacgaga 60
acgaccatgg cgtcccaggc catcgagagc caccgtgcag gcgctgaggt cgtcaccgga 120
ggagacgcaa tctgcaggaa gaagtcaatc gagctgctgg aggagctcgg cctccccaaag 180
ggcttcctgc ctcttgagga catccaggag ttcgggtaca accgcgtgac agggttcatg 240
tggctggtgc aggggaagaa ggtggagcac accttcaaaa agatcaagca gactgtgtcg 300
tacgccactg aggtgacggc attcgccgag aagggaagc tgaggaagat caccggcgtg 360
aagacatagg agctgatgct ctggctcagc gtcgtcgagg tctacgttcc cgaggcctca 420
ccagag 426

<210> 32264
<211> 315
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-047-Q1-K1-A2

<400> 32264

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aagctgcggc tgcngctcaa gctgcaagtg cggcaagaag taccctgacc tggaggagac 120

gagcaccgcc gcgcaggcca ccgtcgtcct cggcgtggcc ccggagaaga aggccgcgcc 180
cgagttcgtc gaggccgcgg cggagtccgg cgaggccgc cacggctgca gctgcggtgg 240
caacttgca gtcgaccct gcaactgctg atcacatcga tcgacgacca tggatatgat 300
tattatctat ctaac 315

<210> 32265
<211> 374
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-047-Q1-K1-A3

<400> 32265

cagaatatcg ctttcgaggt gatgaaaaac ggatatattg caactgtcac cctcttccaa 60
tcatgagtgt gccactacat gtgctgctgc tctgagctct ggctgcaaca atgggtggta 120
acctgcagaa aggaagtatg ccgtactttt gtgcttcagc agcagcaatt tcgagtcgaa 180
gccaaactcta tggggcctgg tgacgggtgct tggtttatgg aatgggatgc agctgcgcag 240
tcgatatgga tcagcaccgt gacttgtatt tgtgctgtac atnncgccg ttgtacatga 300
actaaactgta ccctgtgacc tcacctgtg tacantaaat gtctttattt aatgggaaaa 360
aanaaaaaann anaa 374

<210> 32266
<211> 171
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-A4

<400> 32266

agaagatgga attaatgttg ggaaaaggcg gcccaaacag aggtccttt tcgacgccgt 60
ggacgaagcg ctcatcgagc ttgcttcgat ggcggaactg gctgcgtacc cctggggtag 120
atcatgctct tcggagcacg gggattgcaa gaacggttcc agcagtaatt c 171

<210> 32267
<211> 357
<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3068-047-Q1-K1-A5
 <400> 32267
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 atcctcctag cgagtcgact ccattctgac ggcggagccg gggcaccagc caccatgtgg 120
 gcggcatcgt gcctggcgtc gtgctgcgcg gcgtgcgcgt gcgaggcgtg ccggacggcg 180
 gtcggcagca tcggccgccg ctccgcccgc atcgctact gcggcctctt cgcgtctctc 240
 ctcttcgcat cctggggcgt ccgcgaggtc gccgcgcccc tcctccagtc gatcccatgg 300
 attaaccact ttcacaagac ctccgaccgc gagtgggtcg agaccgacgc ggtgctc 357

<210> 32268
 <211> 405
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-047-Q1-K1-A6
 <400> 32268

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 ctgcaggag ccgggcaacc ctaccaaata ggccaaggcc atgggaaggg acctgagggt 120
 ccacttcaag aacacaaggg agacagcttt tgggcttcgc aagctgcctt tgaccaaggc 180
 taagcgatac cttgaggatg ttattgctca caagcaggca attcccttcc ggagatactt 240
 gggaagtgtt ggtcggacct gacaagcaaa gtctcgccac tccaatgggc aaggtcgctg 300
 gcctgttaag tcagccaggt tcatattgga tttgctgaaa aatgctgaga gtaacgctga 360
 tgtgaaaggc ttggacgtgg acaacctcta tgtttcacac attca 405

<210> 32269
 <211> 228
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-047-Q1-K1-A7
 <400> 32269

cggacgcgtg ggcggacgcg tgggcggacg tttgtgcttg agcgccgttc atcggaatcg 60

gtcctactag ccagtcgact ctatctgac gccaatgcc atgcaccagg ctctatatgt 120
gcagtataat aactcaagtt atactgctct tgcaattcgt acgatgcatt ccaccaattc 180
taaaccatac tttaacgctg ttattgtcac atcgccctaca gttccctt 228

<210> 32270
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-A8

<400> 32270

cccacgcgtc cgagcgatcc cactcccgat cagcagctga tcgctcactc ttgcagctcg 60
agcattcttt agctgctcta gctctagcct ctagccctag ctagtagcta gccactcggt 120
cgtgtagtca tcagccttct gatcgtcacc catggccact gccgaggtcc agaccccgac 180
cgtcgtggcg accgaggaag cgccggtggt ggagaccccg gctccgcccg ccgtcgtgcc 240
cgaggaggct gccccgccg ccgaggccaa ggtggaggag ccagctgccc cggcgagac 300
cgagccagct gccgccgtg agcccgaggc ggccccctg gcggcgagg aagagacgcc 360
aaaggaggaa gagacggcaa aggaggcgga gccggagccg gagccggcgg cggctgaag 419

<210> 32271
<211> 228
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-A9

<400> 32271

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atcatatggc acgtgagccc ggacgagcga gagcgaggga gaggcattggc tgctccgaag 120
ctcgcgacgc tggcgctggc cgtgctcctg gcggagaccg tggtggctcc ccagcacgc 180
ggagcgcgcg gccatgtcgt gttccaccgc gtacagcacg ctgatgcc 228

<210> 32272
<211> 214
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-B1

<400> 32272

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agaaaaagaa aaaaaaaaaa aatgaaaaaa atatataata atacaaaact tacgtaaact 120
tatattaaaa attatataat attatatata cataactaaa atgaaaaaaa atggtggttag 180
ttttaaaatt tccaagctta ttaaaaccct tttt 214

<210> 32273

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-B10

<400> 32273

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ttggtgctcg aaaagatccc acgttttttt tactgatata aagacaagct aggagaggat 120
catgatgagg aagagagaga gtgaaaggag tgggagactg ggcatctccc cccaccattc 180
ttggcgagat cctcatcgat gttactggtt ggtttcaaat aacatcctgt aataaaaattt 240
cttctccaaa aaaaaagaca aaaaaaaaaa caaatacaga tagaacaaca aaaaagataa 300
aaaaaaaccc agagacaaat agacaataaa caggaacttg a 341

<210> 32274

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-H10

<400> 32274

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tgatcgccgg tgcgagggca tgtctaccta cccgaggacc tacgatctca tccatgcgga 120
ctcggttattc accctgtaca ggaacaggga gaagatcctc ctggttgtca agacgtattg 180
gactacccat gaggccatga ccaagatcag tagcaggact gtcaagtaaa attctcaatg 240
ttgataagca tttttcatgt ttggatttgt accaccgttt ctagctcctt gagctagtga 300

tctcttgacg gtttgtgctt gctgttcttt ctggacagta cttgctcggg taggaaattt 360
aacatgtggg ggaaggaagg gtaggtagta agaccctgg cccctgcaaa gttttcttca 420
attccgaatt gtgtccaaat ggtaaataga agtca 455

<210> 32275
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-B11

<400> 32275

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agtcgctggc gcggctgcgc ggccctcgact ccgtggacct ctccagcaac cggctgacgg 120
gcggcatccc ggcggcgttc gccgacctgc ccagcctccg gtcgctggac ctgcggcaca 180
accagctgac gggccccatc ccggcggggc tgggtgcaggg gcagttccgg tcgctggtcc 240
tgtcctacaa ccagctcacg ggccccatcc cgcgcgacga cgcgcgcgac gagatcaaca 300
ccgtcgacct ctcccacaac aggtcaccg gcgacgccta ccacctgttc gtcgccggcc 360
ggcccatcgg caaggtagac ctgtcgtgga actacctcaa cttcgacctc agcaggctgg 420
tgttcccggc ggagctcacg tacctggacc tgtccca 455

<210> 32276
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-E1

<400> 32276

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accaaggctg ccgcaaagaa gaaatgatgt gtctggctgg ttctgtgttt gcttgaggga 180
aacctagtgg aaacataaaa tatctcgtct tgttcacgtc attgtctgaa ctatgctcgc 240
aacgtttgcc tggtcgattt agaatggta ttttcgttaa aaccagagtg ttatttaaga 300
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<210> 32277
 <211> 243
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-046-Q1-K1-E10

 <400> 32277

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 caggagcata ctgcgagcag accagcgcgtg ggtgctgcaa gccgaccacc ggcgtctcgg 180
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 tga 243

<210> 32278
 <211> 366
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-046-Q1-K1-E2

 <400> 32278

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 tgaggagatg cctgatgtca ggaaactgga catccgaaac ttcctgtagg cctgatcgac 180
 gataaccttt gaggcattgc aaatcaccca gccacactgt gatttttttt cttttggttt 240
 tggtttcaag ttgatcggtg ctgtaagcta cacctatgaa tgctgctcct tccttttttt 300
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 ttctttt 366

<210> 32279
 <211> 446
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-046-Q1-K1-E3

 <400> 32279

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 tcttgtttca ccgaggaaaa gagagaagtt ctggataaat tgacaatgtc aacttgaatt 180
 gactaattca gttccgccta ttccacatta atgggagtag atttatgttt ctgctttacg 240
 aatatgatat tttttggaca tttctaataa tagcaagcct ttttctatt ttggtatttt 300
 ggatttcagg acttttagcc ccgggtagtg aaggaccaga gaagctttct agttatgaat 360
 cgggtataga acccatgggg gggggctggg tacaattccg aatacgctat tacatgtttg 420
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<210> 32280
 <211> 267
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-046-Q1-K1-E7
 <400> 32280

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 agggaggact acgtcgagaa cgccgtcaag ttcctgtccc acccaaaggt caggggctcc 180
 cccgtcgtct acagacgata cttcctcgag aagaagggcc tgaccacaca ggagatcgac 240
 gaggccctac ggagagtcct gatcctg 267

<210> 32281
 <211> 454
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-046-Q1-K1-E8
 <400> 32281

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 gcgcaaccac ggggcgtgcg cggcgctgct gaaccgtca gcggcggagc ccatggtgtg 180
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ggcactgatg gacgccaata gggagagggga ggagaagatc ctcaagggca tcaccaagta 300
 tccgcaggca tgcctactt cgccttgcca gcacgatgcc attgacgaag cgtcctcgga 360
 gggcagcgac gcggagctgt gctgcatctg cttcgagcat gcgttcagca tcgacgtgca 420
 tgactgcagg caccaaattgt gcgcggcgtg cacg 454

<210> 32282
 <211> 170
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-046-Q1-K1-E9

<400> 32282

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 cacttaatcg ggctgcaaca taagcacctt ttacctagtt ctgacactga 170

<210> 32283
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-F1

<400> 32283

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 tggcggcgcc ggatgacgcg gtcgtcactg acgggcttct cccgaacggc aacttcgagg 180
 atggcccgcc caagtcggcg ctggtgaacg gcacgggtgt gtccggcgcc cagccatcc 240
 cgcggtggga gacgtccggc ttcgtggagt acatcgagtc ggggcacatg cagggggaca 300
 tgctgctggt ggtgccgcac ggcgcgcacg cagtgcggct gagcaacgag gcgtcgatcc 360
 ggagagcct ggccgaggcg cgcggcgcct actacggcat cacg 404

<210> 32284
 <211> 406
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-046-Q1-K1-F11

<400> 32284

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 aggccgtcat ccccgcgacc gacccgccgc cgccgccgcc gccggccgac gactccaagg 180
 ccctggccat cgctcgagaaa gttgcagatg aacctgctcc cgagaagcct gcccttgcga 240
 agcaaggggg ctccaatgac agggatctcg ctcttgcaag ggtggaaaca gagaagagga 300
 actctttgat caaagcttgn gaagagaatg agaaggacaa agctgagaac aaggctgcta 360
 agaaagtatc cgctattctt tcatgggaaa acacaaagaa agcaaa 406

<210> 32285
 <211> 211
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-F7

<400> 32285

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 tttgacggct cacttgcttc agtgagccgt gccaaccaat ctgcagctcc aaaatcgcca 180
 tttcttacia gcacatctgg ctattcatta t 211

<210> 32286
 <211> 241
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-G1

<400> 32286

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 ctaaagaaaa tgccctgggt gagagcaagg ccatcgacat caaccgtgg cagctcaagt 180

cctgcaccaa ctgcaacttt ttcttttcgg gcttctacac ctgcaactac tttaaaaaga 240
c 241

<210> 32287
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-G3

<400> 32287

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cgctggcggt gcgacctcgg cggcgacgag cgctggctct cgggggccgc tggcgacgac 180
caattcgacc gcctcccga cgcgctctc ctctcatct tcaaccgat cggcgacgtc 240
aaggcgctcg gccgctgtc cctcgtctcc cgccgcttcc acgagctcgt gcccttgtc 300
tactccgtcc tcgtccgct cgactgcgtt atccccgacg agcccc 347

<210> 32288
<211> 332
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-G5

<400> 32288

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acacctggtg ctgatectgt gcctccaggc cgctctggtc atgggctct tcgccgcttt 120
ggctaaagaa aatgccctgg ttgagagcaa ggccatcgac atcaaccgg ggcagctcaa 180
gtgctgcacc aactgcaact tcttcttctc ggggctctac acctgcgacg acgtcaaaaa 240
ggactgcgac cccgtctgca agaagtgcct cgtcgccgtg cagccttct acttgggcaa 300
caaccagttc aagtgcaccg acaactttct tg 332

<210> 32289
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-G7

<400> 32289

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gcctccgctg ccgattcgaa agcaccgctc ctgtcccttc gcaaaaccct agctccagcc 120
accatgaagg gcaaggctga cacctccaag aaggacgagg gcagggtccg ggcgggcggc 180
gccgccgga agcgcaagaa ggccgccgcg agcggcaagc ccaagcgccc gccctacgcc 240
ttcttcgtct tcatgtctga attcaggcag gagtatcagg cgctgcaccc tggcaacaag 300
agcgttgcca ccgtgagcaa ggcagcaagg gaaaagtggc gtgctatgtc agatcaagag 360
aagcaaccat atgtggacca agctgggcag aagaagcagg actatgagaa gactaaggcg 420
aactttgatt agaaggagag cacaagctc 449

<210> 32290

<211> 168

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-G8

<400> 32290

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acatcttgty ccgatcctaa accactagtc ctctctcatc atagaactct atctatcatc 120
accataaaga acatgcctta caccataaac aaggactaga ccaaactc 168

<210> 32291

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-G9

<400> 32291

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tggtggtcag gaccaccacc gtcgccgtgg agccgcggtt tagggaaatg gtgggcgctg 180
gtagggccat tcgtggtgaa ggccgctcggg ttctgtctgc tcgcgggcct cttgttcggg 240

gtgctctggt cctttccgtc ctctccggcg ccggcggttc agatcacaaa aggaaaatgc 300
 agtcttttca atggggaatg gataccaaac ccctctggtc cagcctatac aaatgcaagc 360
 tgtcgattta ttgacgatca ccagaactgc atgatgaatg gtagacctga taaggaatat 420
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<210> 32292
 <211> 423
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-046-Q1-K1-D9

<400> 32292

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 gtggcttgct catctatcag agcttcactg ttacggccga aacgacccat gggtcgccga 180
 ggtcagtcct gcatgacttc gctggtgaca ttgtcaagaa tcgctcagag agtgatgctc 240
 cctgngaagc tgatgctgtg gatgagagcg aggaaagaga tgtaaagaag atgaaatgct 300
 gatgtggtcg acgatagatc agattcagag ttgctgccac tggttatctt gtgaagcagc 360
 caagcctaatt tatttatgcc acataacctg tgctattgta atatgtcaca tgcttatatt 420
 tgc 423

<210> 32293
 <211> 450
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-A8

<400> 32293

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 aaagcgatgc ctaccatacc aactgctgt cagtctctgg agcatttagg tggctctggat 180
 caatggaagg gttgtgtcct agccagccgg caaagatgag ctgctgatgg taatgatgat 240
 gataagaggc cactgctacc ctactacgta ccctctctt tgtgtgctgc catccgtccc 300

cgtttagacga tcgaggagag aataacgcag agctctctgc tcccggcctg tcttctgccg 360
 tcccggccgt ttaatttact agtgtgttcg tcctatatgt ttagcagcag caggtgtatt 420
 gtgcgggtat gtaatggat tgcaactata 450

<210> 32294
 <211> 60
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-B1

<400> 32294

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<210> 32295
 <211> 78
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-B10

<400> 32295

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 cgtgggagat cgttcacg 78

<210> 32296
 <211> 394
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-B12

<400> 32296

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 ccgccttcgg cgaggcccg gtgacgatgc gcaagacggc ggcgaaggcc aagccggcgg 180
 cggcgtccgg gagcccgtgg tacggccccg accgcgtgct gtacctgggc cactgtccg 240
 gcgagccgcc gagctacctg acgggcgagt tcccgggcga ctacggctgg gacaccgcgg 300
 ggcttgcgg cggaaccgga gacgttcgcc aagaaccggg agctggaagt gatccactcc 360

cgctgggcca tgcttggcgc gctcggctgc gtct

394

<210> 32297

<211> 121

<212> DNA

<213> Zea mays

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<400> 32297

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gcataggaaa aaaaataaaa tattaataaaa ataaaaaaaa aaaaacaaag acaatctata 120

t 121

<210> 32298

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-B5

<400> 32298

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ggcaaggctt cttttgttgt tggccttggt ggtggtggcc ttaagcttgg ccgtggaaat 120

ccaggccgac gccgggtacg gttacggcgg cgggtacacc ccgacgccga cgccggccac 180

cccgaccccc aagccccgaga aagccccccac caagggggccg aagccggaca agccgcccac 240

ggagcacaag ccgcccaga gcacggggcc aagccgaaaa gccgccaag agcacaagcc 300

gacgccgtcc acgtacaccc cgagccctaa actcacgccg gcgacgtaca ctccaaccc 360

gaggcccccc aagccg 376

<210> 32299

<211> 239

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-B8

<400> 32299

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acctcccaaa gaagcatggg agaagaaggc agtctgtctt gcgttttgct cggcttcgga 180
tggagaaaacg ccataactat gtccgcaaaa cagctgaact tgctaccag tttttcatc 239

<210> 32300
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-B9

<400> 32300

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aatctctcaa tcaggggatt cttaggtctg atcaagtcgg aggattcggc agggcgcagc 180
catgaacgag aaggcggtccg tctccaagga gctcaacgcc aagcacaaga agatattgga 240
aggtcttcta cggcatcctg agaatagaga atgcgcagac tgcaagtcaa agggtcctcg 300
atgggcaagt gtgaatctag ggatctttat atgcatgaca tgttctggca ttcatagaag 360
cctgggggtg cccatatcta aagtaagatc ttgccacctg gatacatggc tgccagagca 420
agttgcattt attcaatcca t 441

<210> 32301
<211> 170
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-C11

<400> 32301

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ttccaaatct ttggtgggag attaccccat tgtttcgatt gaagatcctt ttgaccagga 120
tgactgggtt cactatgcta cgatgactga agatattgga gagcaagtgc 170

<210> 32302
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-C5

<400> 32304

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cactacttta acgttat tttt acttattccg tgggacggaa gctgggcacc gcccttcctt 120
ttgggtccaa ggcccga cct attcttgcca attctggcct atgacattgt catgttaaga 180
gttcggcttg tgcctcacat gtcttaactg ataacatatg agtcctatta tgagctgagc 240
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<210> 32305

<211> 409

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-046-Q1-K1-D11

<400> 32305

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agggttctta caattgcaag atcctcccga atagcttggt gctggatttt gtgacgaacg 120
tccagatccg cggcatcacg ctgctcaaca gcaagttctt ccacctcaac atcttcgagt 180
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acggcatcca catcggcgac tccagcaacg tgaccatcag cagcaccacc atcggcgctcg 300
gcgacgactg catctacatc ggccccggga gcaagatgat ccgcattcat ggcgtcaagt 360
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<210> 32306

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-D12

<400> 32306

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gtcttcgtct tccgcgtgg ccaaaggcaa gtccggaatc ggatccgcag ccggatctgc 180

caaattcgag gccaaagggga aattctccta ctctactcc ccagctgcgg cagctaccaa 240
 gcgtggaacc accaccacca gcagcagagg tagaggtaga gggaaagccg acaagaaagt 300
 ctacttcttt gccgggccag aaagttcgat c 331

<210> 32307
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-A6

<400> 32307

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 ggaagaccaa ggttctgcct ggcctcaaca agatctttga caaggatggc aagaaggctg 180
 cagctgcagg cttcttgaag tccttcaaca aggaggagat tgacatggag attgaggaca 240
 agaagacaga gctggagccc aaggctcgtg aggctacga agcatctcct cctgaggtca 300
 aggctctgat caaggataag aagccagtca aggtcagcaa gaagaactcg gctgcagtca 360
 ccaagttcct cgatgagctg gctaagattg actttcctgg agccaagggtg gtgagcgagg 420
 ccgtggcca 429

<210> 32308
 <211> 369
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-046-Q1-K1-D3

<400> 32308

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 ctagatctaa ccggactaac cagaaaacaa aacaaaaaaa gacgaaagca tgagccactt 180
 cgccgccgcc atgaagagcc cccttgcggt cgccgtcgcc gcgcccgcgc gcgcccgcga 240
 cgctaagagc ccgctcttct gcccgaagcc gcggcgcccc gcggcgccgc tgcggtgcc 300

ccagagcggc ggcttctccg acgccggcac ggatctgctc gacctnctcc tctcgaaagg 360
cgacgagag 369

<210> 32309
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-D4

<400> 32309

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aggcgtgct gtcgacggag atcgtgaacc gcggcgtgga gccgtcgggc ccggacgccg 180
gctcgccggc cttctcgggtg cgcgtgcgcc gccgcctgcc ggacttcttg cagtcggtga 240
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ccatccccgt catcgtgctg gtgtgccgcg cccagcttgg caagcctaag cgcgaaacagc 360
ttttgcgcaa ggtgttgggg gagggcacct aacgacttgg caccgggctc ggctttcttg 420
gcgtgcttgg ctttaacatc ttcggctaca ttat 454

<210> 32310
<211> 466
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-D7

<400> 32310

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acggatagaa aagcaagatg tcggacggca cggcgacctg catcgacatc atcctcgcca 180
ttatcctgcc gccgtcggg gtctttctca agttcggtg cggggttgag ttctggatct 240
gccttatacct cacctttctc ggctacctcc ccggcatcat ctacgccgtc tgggccatca 300
ccaagtagcc cggccggtgc gttagcatgc aatgcgcgcg caggggtgatc tcgtggcggg 360
ggaacgcgtg tgcgcgtgtc ttgagatgtg attccttctt ttcttggtta gttgctgctg 420

ctcctgctgg tgtagtactg gtgtatccag tccttttaat ttcttg

466

<210> 32311
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-D8

<400> 32311

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agagcagatc ggctgagcga gcgagcgagc gaggcacacg gagctagcta aacagagcac 120
actgattgaa aagcaagatg tcggacggca cggcgacctg catcgacatc atcctcgcca 180
ttatcctgcc gccgctcggg gtctttctca agttcggttg cgggtgttgag tgctggatct 240
gccttatcct cactttcggt ggctacctcc tcggcatcat ctacgccgtc tgtgccatca 300
ccaagtaacc ggccggagcg gtagcatgca atgcgcgcgc aggggtgatct cgtagcggcg 360
gacgcggtgt gcgcgtgtct tgagatgtga ttgcttcctt ccttgcgtag ctgctgatgc 420
tcctgctggt gtagaactgg tg 442

<210> 32312
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-F8

<400> 32312

aaaaaaaaa aaaaaaaaaa aaatttaata aaaaaaaaaa aaaaaaaaaa aaaactgaag 60
gaaaaattag gccgggcggt cctttattaa cgatcttact ttctcttct ttcaattcca 120
tatctttggt atcttgtccc ctaacttaaa ttcattcgac gggattttat aactcaactc 180
ttgggaaatc aatttccata cctcccttaa ctgactcgtc ttgcattact tattttctag 240
atgaagcaga taacctaga cttccgctcc atctcgtttt tctaacaata cctttaccta 300
aaattatatt ggatatctcc ctctcttttt tttttaatt 339

<210> 32313
<211> 128
<212> DNA

32313-32316

<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-G1

<400> 32313

gaaaaaccgg cgcgagccac gcgccgccc acacatccac ccacgcatcc ttttttttc 60
tgctatacaa cccaatctc cgggggctgt attattagga gccctccctc tcttatgaga 120
cctacatg 128

<210> 32314

<211> 224

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-G10

<400> 32314

cccactcgtc ctaaaaataa atttatttta taaaaaaaaa aaaaaaata aaaagaggga 60
ttttttaaaa aaaaatataa taacacctat aaaaattttt aaactaaaaa atcttataca 120
taciaactcc taactcttat atatttaacc gccccctct ttttaattatc caactttact 180
tccctttttt ttcaaaattt ttttttttta ttatgtcccc ctaa 224

<210> 32315

<211> 108

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-G11

<400> 32315

tctacacctc cagcgaccgc tcttaattta caaccccaca cgtccgacta gttgtaggtc 60
tctaggccgc ccttgcaacac caacaataaa ccgttggttg ccatgaat 108

<210> 32316

<211> 110

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-G12

<400> 32316

cggacgcgtg ggcggacgcg tgggCGGacg cgtgggCGga cgcgtgggCG gacgcgtggg 60
 cggacgcgtg ggcggacgcg tgggCGGacg cgtggggttc tagatCGga 110

<210> 32317
 <211> 280
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-G3

<400> 32317

aatcaaaatc aaacttattt ttaccctta cttccacac aaaatggctg tgctttttaa 60
 actgatctta ccacacctca tctaactttt aacacatatt ccacccatc caaactaccc 120
 aacttacaat ctcttctctc ctgatctgcc cttctaagcc taaccttcaa tccaaaataa 180
 agatcttatc ccctattttct acccacaataa ataatcaacc atccttataa atatttaatt 240
 ttactatct caccactaac tcccatttat tctacacct 280

<210> 32318
 <211> 308
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-045-Q1-K1-G4

<400> 32318

gaaaaanggc tggacgcacg cgtccgacca cgcgtncgcc cacgcgtacg gtgtttttct 60
 gctctccgac ccctagctcc aaaggccgga tcattaggcg cggccccct ctcatgtaac 120
 cgacatggcg ctgccgaatc aggggaccgt tgattacccc agcttcaagc tcgtcatcgt 180
 cggcacatgg tggaactggt aaaactacat ttgcgaagaa gcatatcact ggatagtttg 240
 agaacaaata tgaaccaacc attggtgtga aaaatcattc ttggatttc accactaact 300
 gtggttag 308

<210> 32319
 <211> 295
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-G8

<400> 32319

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ctacatttgt gaagaagcat ctactggag agtttgagaa gaaatatgaa ccaaccattg 120

gtgtggaaaa tcattcgttg gatttcacca ctaactgtgg taagatcaag ttctactgct 180

gggataccgc aaggcaagag aagtttggtg gcctcaagga tggatactat atacatggcc 240

agtgtgcat catcatgttt gatgtaacct caaggctact tacaaaaatg tttct 295

<210> 32320

<211> 308

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-045-Q1-K1-G9

<400> 32320

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tttaactcat cttactacac cttactatc ttttaacaga tgtgccgccc catccaaact 120

ccctacctga caatgtcttt cttccagatc tgccctttaa tgctcttct tctaatactaa 180

aagatgtgct gtttctccct ttccgaccaa tatataatct aaatatctat aaaagtattg 240

atatttaaac tttctccccg ttcgcttct ctttttctt aaacctttcc aagatcattt 300

ttcacata 308

<210> 32321

<211> 178

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-045-Q1-K1-H10

<400> 32321

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ccggggtcgt ttatttgcta tgagattact cccccaaaa ctctctctnc ttcaccactt 120

ccatgcccaa agtcaatgc ttcttctct cactgtaacg cccctaactc aacaatct 178

<210> 32322
<211> 397
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-045-Q1-K1-H2

<400> 32322

nccacgcgtn cggtgggcgc tggggcaggc gaagcaccag aagctggccg ccgacgggct 60
gcggttccgc cgcgtggtgc gcggcgagca gcangtcgtg tccgggatga actaccgcct 120
ctacgtcgac gccgccgacc ccgccggccg caccgtgccc tacgtcgccg tcgtgtacga 180
gcaggtctgg acccgcaccc gccagctcgc ctcttcaac ccggtgcccc gcgccccctg 240
aaaccatacg gacacgggtg ggccgaagcg accacgacga tgttctccgt caattacgtg 300
tcgagctaatt cttattattg gttctattat tataataatg cttctccctg ttcctatgga 360
cctatagtag tataactagta tgttgcgagg gagcagt 397

<210> 32323
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-H4

<400> 32323

ggagaaggcg cgccccgagt gcctctgcta catcatccag cagacgcaca ccgggcgcga 60
acgcagggtgc agtcgctcgg gctgcgcttc caccgactca tggcgctccc cgccgactgc 120
aacctcccca actccaacgt ctgcgtctgc atcaccctgc tgaacctgaa gccaggctct 180
gcggactacg ccctcttcgc caacgcctcc aagatcacgc cgtcagccgg cggcaaccct 240
gcgagcgaca gcgccgcggg cagcggcgctc aagttccggg ctggggtcag cggcggcgctc 300
gcgcttcgcc gggtc 315

<210> 32324
<211> 237
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-H5

<400> 32324
agctgcggta ttatattcac cagaagctgg acaccaacgg gcggggggtg catcatgtgg 60
tgcccgacta gcagcaagtc atgtccttga tgaactaccg tctctacgtc gacgcctacg 120
accccgacgg ccgcaccgtg ccttacattg acgtggtgta cgagcagttc tggacccgca 180
ccaccagat taacttcttc aaccgggtgc tctgagctcc ctgaaaccat actgaca 237

<210> 32325
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-H7

<400> 32325
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aatggtgacg ctggcggttcc catggaaatc tggccacctg tatgctatca tcaccttcgg 120
cgcgctggtc ttctggactt catttgccgg gagacaggac agcttcttga tggatcaaga 180
cgtcctacgt caacaagaat gagagggagc acgaactgag cagaaggaag cggtagtgcc 240
actggtgcaa gctcggcggc tcaccgtcaa gacgaacgat tacagcagct atgacccttc 300
cccgctcatg gacaagccac actccaagct cataccgaac tgatcaatca tgtacgcgtc 360
caggttgtag cagcggagtt gccgatgagg aattaacagc ttaaattgtg gc 412

<210> 32326
<211> 276
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-F6

<400> 32326
tgttggattt aaagctggtg ttaaggatta taaattgact tactacaccc cggagtacga 60
aaccaaggat actgatatct tggcagcatt ccgagtaact cctcagctcg gggttccgcc 120
tgaagaagca ggagctgcag tagctgcgga atcttctact ggtacatgga caactgtttg 180
gactgatgga cttaccagtc ttgatcgta caaaagacga tgctatcaca tcgagcccgt 240
tcctggggac ccaaataaat atatctgtta tgtagc 276

<210> 32327
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-H9

<400> 32327

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 gaggtgagag gagatgacgc cgtcgaagac gccacctccc gcaccacgtc catgccccaa 120
 gtcgatcgct tcttcgccgc actggaaggc cccgaactcg acaagctcaa gacgtctgag 180
 gaactggtgc tgccgtcggg caagacgtgg ccgttctctg tccggttccc cgtgtcggcg 240
 ttcggtatct gcctgggctg gagcagccag gcgatcctgt ggaagacgat cgcgtcgtcg 300
 tcgccgacca cgttctctga cgtatccccc aaggtgaacc tgggtgctctg gtgcatctcc 360
 gtgctgctca tgtgcgccat cacggccgtc tcgcgtctaa gct 403

<210> 32328
 <211> 448
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-046-Q1-K1-A1

<400> 32328

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 agtacaagat aatttgacag aagatgagcc aagttttggt agtcaagaag tagatgatgc 120
 agagtcaaca gaagaaacta agcaaaacat agctgagaat attgcagaag tctctgatgt 180
 ggcgattggt gatgacgcaa ttgaacagaa tgtgctacag actgaggata tcgttgaaat 240
 gcataaacag gagctggaac gagaagaaac agagagaata gaacctgttg aatcagagga 300
 agcttctgat cagaggaatg atgcaccatt cgattattca gctcgagaag ataatacata 360
 ggaaagttag atacagcaga cagaatcagc aacgganaca aatgaaattg aaccactga 420
 aattgaagca gttcctcgag aaaagcat 448

<210> 32329
 <211> 351

<210> 32332
 <211> 461
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-046-Q1-K1-A5

 <400> 32332

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 ttcttgcata ggttgctaca cgtatatatt ctgaagaaga gatcgagatg accagcgtgt 120
 ggaagaccaa ggttctgcct ggcctcaaca agatctttga caaggatggc aagaaggctg 180
 cagctgcagg cttcttgaag tccttcaaca aggaggagat tgacaaggag attgaggaca 240
 agaagacaga gctggagccc aaggctcgtgg aggcctacga agcatctcct cctgaggtca 300
 aggctctgtt caaggataag aagccagtca aggtcagcaa gaagaactcg gctgcagtca 360
 ccaagttcct cgatgagctg gctaagattg acttccttgg agccaagggtg gtgagcgagg 420
 cggtggccaa gtccggcacc tcgcccctgc ttccggcgat c 461

<210> 32333
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-045-Q1-K1-B2

 <400> 32333

 gccggaancc cgggcgacca cgcgtccgcc acgcgtccgg aaaagcttca ccaccagaac 60
 gttatcaagc tcaaggagat cgtcacctgc ccaggcccag agcgggacga gcaagggaag 120
 ccaattgacg gtaacaagta caaggggagc atttacctgg ttttcgagta tatggaccat 180
 gatctcaccg ggcttgctga tcggccagga atgcggttca ctgtgccgca gattaagtgt 240
 tacatgaggc agctgcttac aggcctgcac tattgtcatg tcaaccaagt tctgcatcga 300
 gatataaag gatctaacct tttgatagac aatgaaggta acttgaagct tgctgatttt 360
 ggccttgcaa gatcattctc gagtgatcac aatggcaacc ttactaaccg tgtgatcact 420
 ttgggtat 428

<210> 32334
 <211> 349
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-045-Q1-K1-B5

<400> 32334

cgcgtccgcc cacgcgtncg atactataacc tacctacctg tgtcggtttc gggtagcaggt 60
 acccttgggg ggaatgtcgt tcgagctttt cctgtgagta tggcatgggt tacatacttc 120
 agcgccgtag cgcttggtat gagcctggtg gagaagcaat ggctagtaca cggtgctcat 180
 acttcagcgc tgcagcgctt ggtactcgga ccttggtcgc aggcattttc tctacgccta 240
 cttaccttga aaaagcaggg tcacctcgtg tccttaaacc tattactcat tgtcggctaa 300
 cctaacctgc gccggacctc cggccaaca atgggtagta caggaatat 349

<210> 32335
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-B7

<400> 32335

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 gattatattt tataaaaaaaaa atataatata tatataaaaa taattaaata ataataaaat 120
 atattatata ttaaataataa tttttttttt tttcttttta tttttaaaat tttttatttt 180
 ttaaactcat ttttatcttt ttattaattt tttttttata atatattttt ttttttttct 240
 ttattttatt ttttataatt tttttttttt aacatttttt ttttattttt tttaatttct 300
 tattttatat tttttattct tttttatttt tttatttttt aatattttta ttttttatct 360
 ttttattttc tttttttttt taatattatt tttttataat ttttattaaa acctcattat 420
 tttttttttt ttctcaattt ttttt 445

<210> 32336
 <211> 338
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-B8

<400> 32336

agagtagtag tgatccgcaa tgtcgacgga ggaggctgtt gtggctgagg tcccgggtgac 60
cgagggtgcca gcggagggtcc cggcgggcca ggtggccgag gcgccaagg cgaagaaggc 120
gccaaggag aagaaggcgc ctaaggagaa gaagctttcc gcggcgaaga agccggcggc 180
gcacctccc tacgtgaga tgattgtaga ggcgatcgt gccctcaagg agaggaaggg 240
gtcgagctcg gtggccatca gcaagtacgt cgagggaag catggcggca agtccccac 300
caacttcgc aagcagctca ctgtgcagct gaagaagc 338

<210> 32337

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-C4

<400> 32337

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cgcaccgcca ctgcctccca ctctctctcg gggccgccgc cctcgccctc gccgccgtac 120
ctgctcgcg gcgctgggc ggcgggcgcg gcccgctgct ggcggggtgg aaccgatcc 180
ctgacgtgag cgactcgac atccaggagc taagcgggtg ggcgctgggg caagcgaagc 240
accacaagct ggccgccgac gggctgcgga tccgccgct ggtgcgcggc gagcaacatg 300
tcgtgtccgg gatgaacta 319

<210> 32338

<211> 197

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-C6

<400> 32338

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actccctggc acggatgttc ttcgccaaga cgttcgggat ggtgtcactg atggacgaca 120
ctttcgatgt ccatgctact ctagacgagt gtcacaagct caaagaagct atgcagagat 180

gggatgaaag tgaggtc

197

<210> 32339
<211> 279
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-045-Q1-K1-C8

<400> 32339

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tccggcccct ggcgaggctc ggtgccttgt gagcgcaaaa gggaggggct ggtgcgcccg 120
ctatccgacc tcaactggaat atagtaaaat acacgtctaa aagtaagtgg tattttcact 180
tttgcgcccg gaggcttccc aactctatac ctacacctct caaagtcagt ttcacaanag 240
tccggactta gaagtcaaag cttcaacagg nngtcttct 279

<210> 32340
<211> 132
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-D1

<400> 32340

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catattgtga aggtttgggt ccgcactgga catcttcagc aactaacct gtaacttgcg 120
agttgacggc cc 132

<210> 32341
<211> 60
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-D12

<400> 32341

cggcccgacc cagcctcct ccgactcgtt ctcaaacaca tattctttta ctaaccacac 60

<210> 32342

<211> 358
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-045-Q1-K1-D2

 <400> 32342

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 gccgccccag ccgtgctgcg gcggcatcct cagcctgctg cagcaggcca acaacacccc 120
 cgaccgccgc accatctgcg ggtgcctcaa gaacgtcgcc aacggcgcca acgggagcgg 180
 cacctacatc agccgcgccc ccgcgctgcc cagcaagtgc ggcgtcgccc tgccgtacaa 240
 gatcagcacc aacgttaact gcaacacgat tgattaaatg aagcgtcctg tgcgcgtccg 300
 ggcgaggaat gcatgcatgg cggagagtaa taaagtaatg ctgctggtat tttaagct 358

<210> 32343
 <211> 306
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-045-Q1-K1-D5

 <400> 32343

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 cgacggggca cgcggcgtcg ccctcgtaca cctgctgcgg cgacgccggc gacacggaga 120
 aggcgcgccc cgagtgcctc tgctacatca tccagcagac gcacacgggg cgcaaccagg 180
 tgcagtcgct cgggctgcgc ttcgaccgac tcatggcgct ccccgccgcc tgcaacctcc 240
 ccaactccaa cgtctcgctc tgcatacccc tgctgaacct gaagccaggc tctgcggact 300
 acgccc 306

<210> 32344
 <211> 400
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-045-Q1-K1-D8

 <400> 32344

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gaacttgctc	ggccctgcaa	ccttggaag	gttaagggag	cacttgacaa	atccagcaac	120
agttccagca	acttgcgatt	cgtaaccaa	gcttagccag	ccaagctggg	cagatggcac	180
cagcgtcaag	caaatctgtt	aggttcccat	tgcgccctgg	caagggtagc	catgggtcca	240
ggtgcattgt	gaaggcaaat	catttctttg	ctgagctgcc	taataaagac	cttcaccaat	300
acgatgtatc	aataacaccc	gaggttactt	cacgcggcgt	caatcgtgct	gtcatggcag	360
agctagtaaa	actttacaga	cactcccatt	tggtatggg			400

<210>	32345
<211>	436
<212>	DNA
<213>	Zea mays

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gtctcacttg	ctctatattc	ttaaaagctg	ctagcgatgt	gtatcatctt	tattggttct	120
tgacacctct	aagctgctca	ttttgtagtg	ggatctggtg	ggcacttgga	aaggcttgat	180
aacctaatta	gcatggatga	ccgaaatatt	tttctttgga	acgtagacat	gtcaaataaa	240
tcagctaagg	tgatctcaca	gggatcagct	gacatgcttc	caaatttgag	tggtggggct	300
tgggatccac	acaatcataa	ttcaattgct	tcaatatctg	attcatcact	tcatttgtgg	360
gatctacgtt	ctatggaaaa	atcatctgca	attgaaatgc	acatatacgg	gatgtggatt	420
ataaccccaa	aaagca					436

<210>	32346
<211>	306
<212>	DNA
<213>	Zea mays

<400> 32346

aaaaaaaaaa aaaaaaaaaa aaatatatta taggcaaacc atataaaaaa aaacaagggg 60
 gggctactcat acatgcaaac aaataaacta aactataaag acacctaaat ataaatttaa 120
 tgtaacaaaa attaacggcc ttctcttttt taaaaaccct gccttttcct cccacttgaa 180

tacccttgc aacacatttc ttcttttggc cacctaactt aattgccatg agccccgttc 240
 tacacgccct tcccaacaaa acccctgcct taacacaaaa taagaccctc cctgtaaatg 300
 cccttt 306

<210> 32347
 <211> 419
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-045-Q1-K1-B12
 <400> 32347

gagaagagag gtcccgagg gaagaaatca agctgcaaga tatccaaagg agatgggttg 60
 catctaaccg atgggctgaa gctgcccagt ttgcgcttgc tagaagcctc acatcatcac 120
 atagtgcact ccttgcatta gaagctgccg agggaaataa tattctgagg agaacaaagg 180
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 aaagcctcgc cacaatgagc agattgggccc gcaaccgtct gcagcaacct tcttataatt 360
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<210> 32348
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 <223> Clone ID: LIB3068-045-Q1-K1-E8
 <400> 32348

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 tcagtgggat ctttatgcc aaaaaactga ttcgagtaat catttatttg gtaccactca 180
 aagagcggga actgccattc tgacccttct tgggggattc catccacaaa cacaaaattt 240
 gtggctgacc gatattgctc atcatcattt agctattgca tttatttttc tcattgccgg 300
 tcatatgtat cgaactaact tcggaattgg gcacagtatc aaagatcttt taaaagcaca 360
 tactcctcgg ggg 373

<210> 32349
 <211> 345
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-045-Q1-K1-F10

 <400> 32349

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 tgccccaact gcctgtgctg cagccagttc ggggtggtgcg gcagcacctc cgactactgc 180
 ggcagcgggt gccagagcca gtgcagcggc agctgcggca gcaccccgaa cccgccgagc 240
 agcggcgggc tggcgtccat catccccgag tcgctcttca accagatgct gctgcaccgc 300
 aacgacgcgg cgtgccccgc caacggcttc tacacctacg cgggc 345

<210> 32350
 <211> 370
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-045-Q1-K1-F5

 <400> 32350

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 agccgccgcg cgcctccctg tctcctcccc ggcgcctgcc gcggctggag catgaggcgg 180
 cgtgccgttc tcgatccagg cgcccaagga gaagatcgag atgtactcgc cggccttcta 240
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 tctcgacctc gtcaagtgca atatgcagat tgaccaacg aaatacaaga atatctcatc 360
 tggatttggt 370

<210> 32351
 <211> 449
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-044-Q1-K1-G11

<400> 32351

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ggcagtggcg cggccagcat ctccacggcg cacgggtgct accagttcag taggcaggcg 180

agaggaacgc ggtgctgcga cggctcggcc gctcggcgcc tcttgcgtgc tgcgcagtct 240

gtataagcgc agagcagcag agcagacaac actcagctac aacaggaagc cacatgggtgt 300

tgaatgctgn tatctgttag actttctgag taggctaggt tagataagat atcattgttt 360

ttgacaaaaa attctgggtt caggatcaag atgagtagaa aaatatatgg tgaaaatgac 420

tctgagagaa ttgctagtga tgggacagc 449

<210> 32352

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-G12

<400> 32352

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gcttaatcta ttccggcaga aggggacgac cacagggtcca gcacaatcga gcacaaactt 120

cagaaccaat cctttttacca tattttacgga tcactttttgc taacttttca ttactacatc 180

gatacaaacy ccatactctg accacttttg agacctgatc ctgctacgag ctccacactc 240

tgtataaccg cataccatca taccaaacat cactgaccta caacagcaca ccacatactg 300

ttcaatgctc gtatctgtta cactctctta atacgatatg ttacataaca cattataggt 360

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<210> 32353

<211> 330

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-044-Q1-K1-G3

<400> 32353

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 aacaaaaaaaaa aaacaagggg cgcccccca aaaggaacca aaccgcccgc cccgggacaa 180
 caacgngaac agggaaaacc cgggcccccc aaaacaaaaa caccggccgg cgcancccaa 240
 cgncgccacc gggaaaacca ggagaaagcc cccacacaa cccccgaacc aaaacccccg 300
 caaccgaag ggcgaaaaag acacgcccc 330

<210> 32354
 <211> 301
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 32354
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 aagaggagcc agaacagnac nggcagaccg cgggggagag ggagggggag aaccccanga 180
 ngacaccccn gccnacanc ancancnncg gcagggccac ccccnncgac aaccgcgcca 240
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 c 301

<210> 32355
 <211> 448
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-G8

<400> 32355
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 ctcggggttc ccttgggttc cgtctccatg ggcggcttcg tcctccacca gcgccgggcc 180
 atctaccgtt caatcgctga agccgacggg tcgccctact ttaccagcc tggtgaaatt 240
 gccagtcgaa gaagctcaac tgaactggct catgtatgga acaaggcagt ggacgagacc 300

cttgggcgac ttgttgtgta ccttagttcg cgtgggtggt gattcaagct ccatgttgaa 360
catggtaacc gaggaagact ctttttcaag ccaactgatgt gctcatactc gatacttccc 420
tggtccccgg atgaacaagt ttttaatt 448

<210> 32356
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-G9

<400> 32356

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ggaggcacc aagcgcgact cgagtgaggg gcagtaaagc cggctttatg tgcctagaaa 120
ctagtagcta gtgtttgctg ctgtcgaatg aactatgca atgtgatctg gaacctggtt 180
tcttgggtgc gacgcttgtt atgactgtcg tcagtaaaat ttgggggctc cccgtatgag 240
atgctgccgg gcaaggcctc ggtgtccac ctcgtttgtg gcggggggcg ctggagcccc 300
gtctggttgg gttgggaagc cctttaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 420
aaaaaaaaa aaaaaaaaaa aataaaaaaa aagggggggc c 461

<210> 32357
<211> 337
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-044-Q1-K1-H1

<400> 32357

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gaannggaan gagnaanc gagaggcnn aacgagganc cannggagg caagncnggn 120
gccagcagcc gcgnaannc cagncnaan agcgnanann naagnngnng cagnnaaaaa 180
gcncgnagnn ggaccnnggg ccgggccggc cggncgcgn cacggcgaga accgaccggc 240
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<210> 32358
 <211> 451
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-044-Q1-K1-H11

 <400> 32358

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tctagagttg gtgaggttga aagaagcaga gatagctgaa aacaatgccc ggatccatga 180
agttcaagaa agaatcagtg cagtgggtctc cagattccat ggttctcagt cagatattga 240
cttgaagctc agttccttga aggaagacca aagtaaagtg gatctagaga ctgaagcact 300
tttgttgaag aagaatgaaa ttgataagtt cattacttta acagatcaaa aggattcaga 360
gttgagggac ataattggtg cttgttcctc tgaagcanaa gcttgtcgac aatcagttga 420
aataagaaga aagcttgcac catcgatctt g 451
  
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<210> 32359
 <211> 110
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-044-Q1-K1-H3

 <400> 32359

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aaaaaaaaaa aaaaaaaaaa aggaggggaa aaaaaaaaaa gggggggagg 110
  
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<210> 32360
 <211> 225
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-044-Q1-K1-H5

 <400> 32360

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 aaaaaaaaaa aaaaaaagga aggagaaaaa aaaaaaagag gaagggggcg gacggccnag 120
 gggaacaaag ganacanacg cgggcaggcg aggaaaaaac ncaaaaaagg gggcaccgaa 180
 acacaaaaaa cgggccgacg ggcaacaacg aaaaaacggg gaaaaa 225

<210> 32361
 <211> 454
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-H9

<400> 32361

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 tgtctccaa ggacaagctc aagctcaaac ggttggtccc aggccaagtg gagctctcct 180
 cacaggcggg ggcaatccct gctatcaccg aagacgagga tgaaccacat aaccctggat 240
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 tggcctcagt acttggaag aaggcaggcg agaagggtac cttcaagcta ctgaaggcac 360
 gggcctcggc tcaaacctat gtcaagatgg cattcacggt ggagaagaag cttgctgaag 420
 gggatgtgaa ctgggtcaaat attccagaat ggaa 454

<210> 32362
 <211> 345
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-A10

<400> 32362

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 ggagtgaag aacgacccgg tctgcaacct gtgcaatgtc tctggccacg tcgcgcgcgt 180
 ctgcccacaa acgactctgg cttcagtgat acagggcggc ccgttccgag atatcctgtg 240
 ccgcatctgc ggtcagccgg ggcacatcag ccgcaactgc atggcgacca ttatctgcga 300

cacatgcggt gggagggggc acatgtctta tgagtgcctt tcggc

345

<210> 32363
<211> 281
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-A2

<400> 32363

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tctatgcata ttccaggtcc acagatacgt ggaaggtctt tggtgggcta tgagatacta 120
ctatcaacgt gtttgttcat ggcagtggta tgtaaatt gaccatctac tgtgagaatt 180
tgctatcgca ttttctgtgg cagataaaac atcacttgat tgagtgtgaa agtattattc 240
ttcacttttt ttgcaaagcg caggagaact gcgcattcatt a 281

<210> 32364
<211> 369
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-045-Q1-K1-A3

<400> 32364

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ggcgcgacgc agaaggccgc gccagggccg gcgtcgtcgt cgggctcggg cgcgggcgcg 180
gcggacgcgg cgccgccgac ggacgtgaac aaggcgctga aggacgagca gttcagcgag 240
ttccggcagc tgctgcacga cacgcgcgtg gacacgcaga tcaacgcgca gctgacggac 300
agctacaacg ggctgacat tatggcgccc accaacgccg tctttgacaa gatgaaggcg 360
ggcgtgctg 369

<210> 32365
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-A6

<400> 32365

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cgcgaacaaa cccaacatta ccggactgga cagggccatc ctcaccctga agacgcaccg 180

ccgcaagctc gccagttcc agcaacagct tgagaaggta attgaagcaa aaaaggaagc 240

tgactgcaa ttggttcaac agaagaagag agacagagct ttgattgcac tgaataagaa 300

caaagctcag gaagagctgt tgaaacaatg tgacacatgg caaatgaatg ttgaacaaca 360

gc 362

<210> 32366

<211> 274

<212> DNA

<213> Zea mays

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<400> 32366

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cgaggccgcc agcagcgtag tctcccgtct ggagtcgctg gtcaccggac gcggagccaa 180

catgcgctg acaaagagcg gctcgcgggg cgtttgtttg gaggccgtgt cgcgcgggcg 240

ctctgaggcg cggctggcag tggccgcgga gatc 274

<210> 32367

<211> 145

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-A9

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gagaccctaa agaagagcaa ctatg 145

<210> 32368
 <211> 384
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-044-Q1-K1-G1

<400> 32368

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<210> 32369
 <211> 284
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-B1

<400> 32369

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<210> 32370
 <211> 262
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-044-Q1-K1-D7

<400> 32370

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 accaagacga ggggaaagaa ga 262

<210> 32371
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-D8

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<210> 32372
 <211> 445
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-044-Q1-K1-E10

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 gtcccagaat tcgggtggcg ggacgttggc cagtacaagc agttcctgtc agtcgacacg 180
 aacatttctg ccggcgacga ctccgctctt gaccagagac tgaaggcgct gctcaggaag 240

ctctctttgg ttgacctagc aggcctctcc caccagcata ataggctggc gttctggatc 300
 aacacctact actcctgcat gatgaacgca tttctcgagc agggagcgcc tagcgacccc 360
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 gccgtggcga tcgagcactt cattc 445

<210> 32373
 <211> 459
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-044-Q1-K1-E11
 <400> 32373

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 aaccctggcg gagaaggcg ccctggcgta cgcggcgag cacggcctgg acctggtcac 240
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 caccgtgctg gcgctcatca cggggaacgc gctccactac tcgatactca agcagggtga 360
 gctcatccac ctcgacgacc tctgcgacgc cgagatcttc ctcttcgaga acctcgccgc 420
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<210> 32374
 <211> 406
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3068-044-Q1-K1-E12
 <400> 32374

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 atatgtctgt ctaccaagca atcagatgca tgtcatcatc caagcttttt gttggagggc 180
 tttcttatgg aaccgatgat cacagtctca gagacgagtt tgccaaatat ggacaagtta 240
 ttgaagctaa gattatcctt gatcgtgagt ctgggaggtc ccagaggttt ggctttataa 300

CCGTCAGAAG TGCCAATATT TCCATCTTCA AAATCAGAAG CTAGTAACCA ATCTAAGGCA

cttacacgtc ttctgaggag gcttcngctg ccatcactgc catggatgga aagactctgg 360
atggacggaa catacgggtt aatcatgcta acgagaggac aggtgg 406

<210> 32375
<211> 422
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-044-Q1-K1-E4

<400> 32375

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ttaggatact cttgatgaag gaaactaaca acttcacgca tatctgccgt ccacccggca 180
ttgtaaaagc aatcagatgt tatggagatg ccaccaagac ccctgtggtt gcttacaaca 240
acattccatc ctttgattgc catagaaaag accaagtgtc tcacataagc agcactagaa 300
tcactagtta atccaggat cacaacaaga aggggtgttg aatcatcctt agaaatgggt 360
ccgtcagaag tgccaatatt tccatcttca aaatcagaag ctagtaacca atctaaggca 420
at 422

<210> 32376
<211> 244
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-044-Q1-K1-E6

<400> 32376

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aagccgaccc cggcgacgaa cacaccaagc ccaacgccac cggcgaccaa gccgagcacg 180
cccaagccag agccccgcaa cgaacacccc cccgccaag cgcgcnacac ccaagccgac 240
cccg 244

32377
32378
32379

<210> 32377
<211> 229
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-E7

<400> 32377

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tttactagtg tgttcgtcct atatgttttag cagcagcagg tgtattgtgc gggtatgtaa 120
tggtattgca actatattgg gtgtaaaacc ataataaatg tgggcaaata tgcaaggaaa 180
aaaaaaaaa aaaaaaaaaa aacaaaaaca aaaaaaaaaa aacaaaagg 229

<210> 32378
<211> 408
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-044-Q1-K1-E8

<400> 32378

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aaaaaaaaa aaaaaaaaaa aaaaaaaagg gaaagaaaaa aaaaaaaaaa aaaaaggaaa 120
aaaaaaaaa agggggggggc gcccaagagg acccaagcna acgaacgcgg gcaggcgacg 180
acaaagcccn caaaagggg caccaaaanc aaaagcacgg gccggcgnnn aaaaacgccg 240
ggacggggaa aaccgggggg gaaccgaaga gaagcgccgg gaagcacacc cccnnncgc 300
cagcggggga aaaagcgaaa aggcgggcac cgaccggccn nccaacaan ggcccagccg 360
gaaggcgaa ggggacgcgc ccgganacgg cgcaaaaagc gcggcggg 408

<210> 32379
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-E9

<400> 32379

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gggcacacat atttagcact ggtgtaaatt ggaaatagtg agtgatatga tcctcgggaag 120
catatcacgc aaaaacaaga aatggtacat ggtgtacatc cttgactgga tgattttttg 180
atgtcatata cagcgcgaag tcttcttctt gcgagacaaa aagctatatg acgttcagac 240
aacatggtgc tgcaagatat aacataagat cattgcttgt tcaaaaaaaaa accatagatc 300
caattataat tccgaaaaaa aagatactgt ttgccagatt aaaatagtct acattgatcc 360
attggaaaaa aaggtcgtca catttaaaac atccaaactt 400

<210> 32380
<211> 456
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-F12

<400> 32380
cgccgccggc ctcgcccgcc ggcgccatcg ccaggctctc tacgccatcg gcgtgcccga 60
ggccctatcg gtgttcgtgg acacgtaccg gaacggggcc aatcccgaca aggggatacc 120
tgagaatcgc aaaggagaac ttgaatctaa ggcccgggtg gaacataatc aacctagacc 180
tcaagaaagg cggaaacggg ctctacctaa agacgggggt ctacggacac tttgagaggc 240
acgaccgaga cttcacctga gaggtggtga agccctcaa ggcggaaaag ccgtcttctg 300
catgaggcgc ctctctgtt tcagaagaag cttttggtct ggtctgcctg cgctctatca 360
tgctttatta tggctcctac gtgttgtgat tcttgatctg ccccttgctt atcatttgta 420
ctgtactgtc actgtcctaa taagtggtag gtgtgc 456

<210> 32381
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-F2

<400> 32381
cccacgcgtc cgcccacgcg tacgggcgca gatgatcctt gacaagaaat ttgctgggac 60
actagatcaa ggtgctggct gcctcattat ctttgaggat tctaagacgg aggatatctt 120
ccctgccact ctcgaaacca tttcgaatgt cggaaggtt gtggacagcc tttatgtgag 180

caacaagccg cggcggggcg gggcaccgnc gacaagcaga gcacggagga agagcgg 357

<210> 32384
 <211> 346
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-044-Q1-K1-F6

<400> 32384

cccacgcgnc cggctaaacc ctngngncca cagcagaggn cngncncgng gagcggggcn 60
 nangacaccg ngcggancnn nnaacagang ngccgcccc gccaaacncc ccaccngaca 120
 angncnnccg cccggancgg cccggcgagg cggggccnng gagccaaaag gaggggagg 180
 gccccgcnn cgcaccacgg aanaagnaaa anaacgnnaa aagnagnngg aggnacnng 240
 cgcccgagg cncacacna nccnacaccn cncaagnan nncacaaagn cggaccagag 300
 ncaagcncaa cagggnccnn cnnccccgc ggaaaccgcc aagccc 346

<210> 32385
 <211> 386
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-044-Q1-K1-F7

<400> 32385

cccacgcgcc cgaggcggga ccaccgcng aananaagca ganaaanaaa cacaggagag 60
 gaaaccacg aggacggccc gagaaacggc gagcgaaccg ggagcagacc agccggagaa 120
 ncgggcggcc ncgccgccc aaaaggagnc cggagaggcg gcccagcga cggaccgggc 180
 ccaaggaccc cggaaaggga cgccaggag gngagagcc ccgcccggcc cagaccagg 240
 cgcaccacga ggcgccggca acgaggcagg gcggccggga acgcagccca aaccgggcgc 300
 gaaaccccg ccaaggcnaa aaacaggcga gagacacgaa gcgaacaagn accgcgagg 360
 aaagaagaaa aggacgnnga aaagag 386

<210> 32386
 <211> 345

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-044-Q1-K1-D6

 <400> 32386

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 gacacctaag ccgacccccgc cgacgtacac tccaagcccc aaaccttcga cgcccaagcc 120
 gacccacccg acgtacaccc cttcccccaa gcctccgaca cctaagccga cccgcctac 180
 gtacactcca agccctaagc caccggctac caagccttcc acgccaagc cgccccgnc 240
 aacgtacacc ccttcgcaa agccttcgac acccaagccg accccgccga cgtacacccc 300
 gtcttccaag ccttcgacgc ccaagccgac cccgccgacg tacac 345

<210> 32387
 <211> 111
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-044-Q1-K1-F9

 <400> 32387

 cggacgcgtg ggcggacgcg tgggcggacg cgtgggcgga cgcgtgggcg gacgcgtggg 60
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaggacaga caatataaaa a 111

<210> 32388
 <211> 89
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-044-Q1-K1-A8

 <400> 32388

 cttttattct caaagcgttg ataaaaagct ttctcttcat ctgtatattt tattgttaat 60
 gaaagaaata aaccactata tatttcgac 89

<210> 32389
 <211> 274
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-044-Q1-K1-B1

<400> 32389

gacccacgcg gccggaagaa accgacgagg annccccgag naacggcgag cgaaccggga 60
 gcagcccanc nagagaaggg ggcggccnca ccgcccgaca agaanacagg agaggcgacc 120
 acagcgacag accgggcccga agagcacggg aaagggacgc cagggagggg gagagcccca 180
 gccggcccgg acccngacga accacgaggc gccagcaacc aaccggggcg accgggaacg 240
 cccccaaaa acagcgagna acaccgggca aggc 274

<210> 32390
 <211> 458
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-B10

<400> 32390

cccacgcgtc cgcacagctt ctttgtcgaa tgcttcaggc actcggtaat tcctagaaaa 60
 ggttcggtaa agactttgcc gagtgtagct ctcggtgaac tgtatatata atatcatgac 120
 atgtcgataa agttcatgat tttctgactt cgtttgttgt ttatacaatt ttaaaactac 180
 tagatctcaa gttcacattc atgttttgtg accatgatac tcaaaaattc tgggtctgttt 240
 ttaaaatagg tcgtaaactg tgctaaaata acataaatat cattttttgc attcactgtt 300
 ttctattttt tgagtgactt acaattcaaa tatgaattat ctgaagaaat tcaattaaaa 360
 gaactaaata taatagctat agctaact ttgataatta tgtcaagatg gaacatgtat 420
 ctctatatag tgtaagaaca tagtagaaaa aatttgct 458

<210> 32391
 <211> 278
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-044-Q1-K1-B2

<400> 32391

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agcgggagcc cacacaagan ccaacgggaa aagccaanga ngagaggcan cgggggagca 120
 acgcccgcga ccaaaacaca aacacnaaac aggnaggacc gcccggcngc cncggagagc 180
 ccggccacgg aaccaggagc cccaaggggg ccacaaaccg gcaagcagaa caggcgaagc 240
 aggaagaacc ggaagccggg gnacggggcc aaacagcg 278

<210> 32392
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-B4

<400> 32392

cccacgcgtc cgcggacgcg tgggggtaccc tgacctggag gagacgagca ccgcccgcgcg 60
 gggcaccgtc gtcctcggcg tggccccgga gaagaaggcc ggcgccgagt tcgtcgaggc 120
 cgcggcggag tccggcgagg ccgcccacgg ctgcagctgc ggtggcaact gcaagtgcga 180
 cccctgcaac tgctgatcac atcgatcgac gaccatggat atgattatta tctatctagc 240
 ttgtggtggt ggttgaacaa taataagcga ggccgagctg gctgccatac ataggtattg 300
 tgtggtgtgt gtgagagaga gagaaacaga gttcttcagt ttgctatctc tctctgcatg 360
 tttggcgtca gtctttgtgc tcatgtacct acgtgtgtct acctg 405

<210> 32393
 <211> 100
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-B5

<400> 32393

cccacgcgtc cgcccacgcg tccgcggacg cgtccggcca cgcgtccgcc cacgcgtgcg 60
 ggcacgcgtc cgcccacgcg tccgctagtt ctaatcgca 100

<210> 32394
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-B6

<400> 32394

cccacgcgtc cggccatcac cctgctccaa gatcaagctc agagagttca ttcactcaac 60
 agggaaactgc tatgcaaagg ctgcggtac agtcaggcct taacaaaggc cagcgtccta 120
 gtactgatga ttcattcaagc tgcattatag acgaaccagg aagtcagcac aaagcagaaa 180
 aagcagagat tgaagaggat gcgagtacaa acctcgctgg aagtgcgtgat gatctacctg 240
 gtaatatcca tgatgatgag caaaagaaca tcctgaaca tgggtgctgaa atgacttctc 300
 cagaagccaa atctgttctg aggttgcgga agacttctga ggaaggcaac aaggatgtca 360
 agcaggagag ttggctcgag ccacacgtga gaggaccaat g 401

<210> 32395

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-C11

<400> 32395

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 gacgtgctta tctcacgaca tgtccgatct gttgtaacag atgtcccggc ccagccgaac 120
 tcagcacctg aactgtctt ccacgccgat atgacctgct agcgactgcc ttggagccta 180
 aacgagtggc tgtgcaccgc ttgcgaccca cgtactgcgt atataacgct gatgtactgg 240
 tatttcaatc gtgcacagag gctccaaatt atcctacaac tgtcacgtca tctgccaatg 300
 tctgactaac gtcaacctga acatgatctg ccttaacggc tgattccgcc aaagca 356

<210> 32396

<211> 147

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-C12

<400> 32396

cagacgcgtg cgcgcacgcg tgggcgcctt tttcttgac acggcaacta tactctcggc 60
 ggggttcttt cagcacatgt cggagatgtt cacacagatg cccacgcgca gccgatctcc 120
 acatctgaca ataccttaca cgccgat 147

<210> 32397
 <211> 273
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-044-Q1-K1-C3

<400> 32397

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 cgnggccagg ggcgcccnc agagcgagga ngncgagccc gncgccgnca acgaccccn 120
 cancaccacg gaccacanga ccnacaagnn caaggacgac accgnccacg gccaccggaa 180
 gcacagcgac ancacacgca aggaccccaa gaccnncnc nncggngaca agccggncac 240
 cgncnnnggc ancaggaacc cngaggaaaa ccc 273

<210> 32398
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-C7

<400> 32398

cccacgcgtc cgcggacgcg tgggcaaggt tctgcaatct gtgaacccta ttatgcctga 60
 ggaggtagtc cttgggcaat acgatggcta caaggatgac cctacagtgc cagatgactc 120
 gaatacccca acttttgc atctgtgttct tcgggtacac aatgaaagat gggaagggtgt 180
 tcctttcatt cttaaagctg gtaaagcatt gagttcaaag aaagcagaag ttcgggtgca 240
 attcaaggat gttcctggtg acatttttag aagcaagaag caaggaagaa atgagtttgt 300
 tatacgctc caaccatcag aagccatgta catgaaacta actgttaaga agcctggggt 360
 agaaatggct actgaacaaa gtgaacttga tctgtcatat gggatgcggt accaaaatgt 420
 caaa 424

<210> 32399
 <211> 335
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-C8

<400> 32399

cccacgcgtc cgcccacgcg tccgtgaaaa aaaaaaaaaa aaaaaaaaaa aaaaaggaaa 60

gaaaaaaaaa aaaaaaaggg aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaagg gggggccgtt aaaaaggaac aaagggttaac gaacccgaga atgcaaaaaa 180

aaaaatttgg tatagggtca ccaaaattaa attaacgggc cgggggtttaa aaacggagaa 240

actggaaaaa cccgggcgaa accaaaataa atgggctgga agaaaaaac cttttcgcca 300

gttagcctaa tggcaaaaag gcccgaaccg atcgc 335

<210> 32400

<211> 369

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-044-Q1-K1-D1

<400> 32400

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gnccgcncna cggcgagagc cgaccggcnc gaccnncng cggcggaagc gcccngggcc 120

anaacnggcc gggncnggcc nccggcgccg nnaccccgaa gaaannagag ngcncaaagc 180

aagccancgc ncgggagaca cnagcacggg aaaacancan agganncgg cccacccggg 240

ggggccgncg ggaccggagn aangannaag agggacagnc gggggcaagc gaaaaacaca 300

gccagaggcg aaannncggg gaccaggaaa gacgaacaac ngcgaaagca cccgccaagg 360

aggggggnca 369

<210> 32401

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-D10

<400> 32401

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cgctcatctt acgacacctg cggatatctgt caacagatgg gccgccccag ccatactgtc 120

cacctgacaa tgtatttcgc ccggatcgga ccgacgagga cgtgcctagt agcccatcgg 180
 agggtcgggtg cccatcttcc gacccacggg ataagttaca tcaccgtaaa ggtagcggta 240
 tgtcacttac tgcccggagg ctcccactca tctacacct ctgaagttat tgcacatagt 300
 gcgactagag ctacgctaca cacggtattg tcttccagtt gattccatcc agcccgatcc 360
 cttggctgtg gcttcgctgg atagtataca tggtcagtgg gaatc 405

<210> 32402
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-D11

<400> 32402

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 ggagccttaa cgtaatatga ataagaagct cattgggtgc cccattgtga cttgcattcc 120
 aaatgactct actgcaaaat ctgatatgta tgctgctgtc tcttctgtct tggctccata 180
 tgtaagatca aaagcacata accctgatgt gtctgctgtt aagttaaag gcaatggggc 240
 aagtttgac ggcatgtcc tgaccgataa tggcaccacc agtgaagagg gtctatctac 300
 atcaaaatca aggtaggacc ataatgcagc tgacaatgag cttttaccgt ttcagctttc 360
 attgactgat gaaaaaggta gtacacaaaa tgctatagac atggat 406

<210> 32403
 <211> 318
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-044-Q1-K1-D3

<400> 32403

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 gccgggggag cncggagacc cggagncnnc cccaccccc anaacgncca caacngccga 120
 gccngcggn gccgcccggc ggcgccgcaa gccngcgng cccgcgggaa ccccgannng 180
 gagnnaacna acggaagnnn acaannganc aacaagacnn agnccaaccc nacgagacaa 240
 aacaccangg nnaccnncn caacagcngg gcaagcgnag aaaggcagac aaaangnnng 300

gcgcaaagaa ggaaagga

318

<210> 32404
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-A7

<400> 32404

caggttaaga aatctgtgcc aaccttgccg atactgaacg caaagcccct agaggccacg 60
tccaagagtg atacgaggtc tacaaaagag aatcctccta gcaaagatga agaccccatt 120
gggattgatg caaagaagga taaaaggaag ggatctaaac aagaggtaaa gggccttgaa 180
gagcttgaag tccagagtgt ttctacaggt atcaccactt cgaaccctgg taaacttgaa 240
gtgccagacg gtaaggaaaa gaaaaagggtc aaggaagcta agacgaagaa atctgaagag 300
ccgtaccatg ccaataacag tagcttaaag aacaaagaag ttcaatcttt tgtctatgat 360
accagcacga aagacaag 378

<210> 32405
<211> 310
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-044-Q1-K1-D4

<400> 32405

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agagacaaca gaaaaaacac acaccaaggg aagggggggc ggccgcacaa gaggacccaa 120
cccaaccnac gcgcgcacgc gacggcacag cccngcgaga gcggcaccca aagccaaaaa 180
acaggccgcg cgcaaacaac cccggaacgg gaaaaacca cgcaagacca caaaaancg 240
cccggcagca cccccccca acgcaggcgg gcagaanagc gaacaggccc gaaccgagcg 300
cccgcccaaa 310

<210> 32406
<211> 349
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-044-Q1-K1-D5

<400> 32406

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cgaccggcnc gaccnncng cggcggaagc gcccnggcc anaacaggcc gggncgngcc 120

nccggcgccg nnacccccgaa gaaannagag ngcncaaagc aagccancgc ncngganaca 180

nnagcanggg anaacancan agganncgg nccaaaaggg nnggccngcg ggagcggagn 240

aangannaan agggacagnc gggggcannc gnannncaa gncagagggg aaanncnngg 300

annnangaaa gacgaacaac ngcgaaagca nnngccaaagg angnnnnca 349

<210> 32407

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-G6

<400> 32407

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ctgtggtgga tgacgcagcg gatgggcgtc tccggccgcg acgtccctct ggagaccag 120

ttcatgctcg tcgaggtccc tgccagtgc ggcggcgcg acgacgcccc cgcgtacgtg 180

gtgatgcttc cgctgctgga ggggcagttt cgggcggcg tgcaggggaa cgaccgcgac 240

gagctgcaga tctgcatcga gagcggggac aaggcgggtc agacggacca ggccgcgcac 300

atggtgtacc ttcacgccgg cgacaacccc ttcgacaccg tcaccgccgc cgtcaaggcg 360

gtggagaagc acctgcagac gttccaccac cgcgacaaga agaagctgcc gtcgttcctc 420

gactggtttc gctggtgcac ctgggacgcc ttctacac 458

<210> 32408

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-G7

<400> 32408

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 ctgagttgga taccagcgc atgggctgtg tgcactaacg tgcctctgga caccagctca 120
 tgctcgtcga cgtccctgcc agacacggcg gccgcgacga cgcctccgcc tacgtgggga 180
 tgcttgcgct gctgcaggcg cagtttcagg cggcgctgca agggaacgac cgctacgagc 240
 tgcagatctg catcgagagc ggagacaacg ctgtgcatac ggaccaggcc gtgcacatgg 300
 tgtaccttca cgccggcgac aaccccttcg acaccgtcac cgtcgccgtc aaggcgggtgg 360
 agaagcacct gcatacgttc caccatcggt gacaagaata aactgccgtc gttccttgac 420
 t 421

<210> 32409
 <211> 392
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-043-Q1-K1-G9
 <400> 32409

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 tttgttcttg accaaggcta ggaagtacac cttcttcaag cccaagttca tcttctacgc 120
 cacctacctg tccgagaaga tgggtactg gaggtacatc accatcttca ggcacctcaa 180
 ggctaaccgg gaataccagg tgtaccccat cttcaagtac ttcgagaact gttgccagga 240
 cgagaacagg cactgcgact tcttctctgc cctgctcaaa gctcaatcgc agttcctaaa 300
 tgactggaat gccaaactct ggtcacggat cttctgcctc ttggtgtatg tgaccatgta 360
 cctgaatgac tgccaacgca ctgcattcta tg 392

<210> 32410
 <211> 239
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-043-Q1-K1-H10
 <400> 32410

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 acgacgacta gaccgatgat gccccctaca acgctgccga atcagcgggg ggccatatcc 120

gatcaagcga ggacaccacc agagaccgac cggatcccgga ccgcgctggc tgagatcggt 180
 gggcggttca tgagctatga tctgcctgat cacatattac gaccgccgat tttgggttc 239

<210> 32411
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-H12

<400> 32411

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 tcagctagtgc ctttgctgtc tttgatgctt cgagatgggt tcaatcctac ggttgctgact 120
 tttacatcac tcctgaagggt tgtattagaa aatgataatt ttgaaggggc tctggatctg 180
 cttgatatat gcaagattga aggacttcag cctggcatac agactttcaa cacagtactc 240
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 cgatcaaaaa tccaacctga tccatcaaca ctttggtaca cgttttgtgc ctacgaggag 360
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<210> 32412
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 <212> DNA
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<223> Clone ID: LIB3068-043-Q1-K1-H2

<400> 32412

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 aatggcacgg gcccttgggg ccccaacgcc ctaacctggg tcggggccgg ccgccaacaa 120
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<210> 32413
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-H4

<400> 32413

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cgtggtgatc ctggacggct ccacggtgcg cggcttcgtg gcggacgagg cggccttcgc 180

gcgcagcctg gacgcgcggt tcgccgcgct ggacgccaac ggcgacggcg tgctgtcccg 240

cgccgagctc cggcgcgcg ctcgagtcctt ccgcctcctc gacggcgggc gcttcggggtc 300

ccgccagccg gcgccgctcc ccgccgaggt cgcgcgctc tacgacgccg tcttcgagca 360

gttcgacgcc gaccacagcg gcgccgtcga ccgcgccgag ttccacgacg agatgcgccg 420

catcatgc 428

<210> 32414

<211> 454

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-043-Q1-K1-H5

<400> 32414

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agagctgcca agtcagcgag gctcaggcaa gcaaaagagg aggctgagcg ggaaatagcc 180

gaataccgtg cccagatgga ggctgagttt cagaggaagg ttgcagagag cagcggcgac 240

tccggtgcaa acgtcaagcg tctcgaggaa gaaacggcgg cgaagatcga gcaactcacc 300

cagcaggccg caagcatctc cccggatgtc attcagatgc ttctgcggca tgtcaccacc 360

gtcaagaact gangagtgt gttcccgaac tatgctcgca gacttgtacc gtcgatctat 420

ttaatttttg tcaagagtga gagtgggtgag gaat 454

<210> 32415

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-H6

<400> 32415

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gagagaatcc attcagaagc tggctgcgga gcaagaggct cagcaaatag agaatgccgc 120

tagagctgcc aagtcagcga ggctcaggca agcaaaagag gaggctgagc gggaaatagc 180

cgaataccgt gcccagatgg aggctgagtt tcagaggaag gttgcagaga gtagcggcga 240

ctccagtga aacgtcaagc gtctcgagga agaaacggcg gcgaagatcg agcaactcac 300

ccagcaagcc gcaagcatct tcccggatgt catgcacatg cttctgcggc atgtcaccac 360

cgtcaagaac tgaagagtgc tgttcccga ctatgc 396

<210> 32416

<211> 53

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-H7

<400> 32416

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<210> 32417

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-A10

<400> 32417

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ggagtgtcat tgagaaagga ggccgcaaga tcgggtttga ctttgactat gatgagaaag 120

acaccagcta taacaggatc aagagcctgg tgaccgagga gttgaagcag tatttccggc 180

cagagttctt gaacagattg gatgagatga ttgtattccg gcagctgact aaattggaag 240

tgaaagagat tgctgacatt atgctgaaaa gagtgtttga caggctgaag gccaaagaga 300

ttaatctcca ggtcacggag aagttccgag a 331

<210> 32418

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-A11

<400> 32418

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caacgacagg gaacgtgttg ttgaggctag agatgagctc cacaggatgc tgattgagga 180
tgacctgcga cactctgctc tgtttgtatt cgaacacaca caatatttcc aaagctctga 240
aaatgctgct aaaatctact gacaatctgg gtctgcattc tgtgaaacag gcactctgct 300
acatgcagag ctcttgtaga acatgtgaaa aagggattta tgaggttcac tagtgttttt 360
ccagcaacat ctccagcaag tcttgaagct tttcggcagg gctactagcg agaggatgtc 420
tgaacaactt atggctgctt tttttataca tattatt 457

<210> 32419

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-A12

<400> 32419

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caacgacgca taacgtataa tgcaagctcc atatcaccta cactggatac tcaataatga 180
taagctgact gactctcttc tctactatc tccatacaca caacatcttc ctaatgctat 240
gaatgctgct aacattactg acaagcttga tctgcattcc ctgagacagc ggcactgcta 300
catgcagagc actcgtgcta catctggtga agggttgtat tacgggcttg actggctttc 360
cagcaacatc tacagctagt cttgaagctc ttctgcagga cttctagcga gaggatgtct 420
gaacaactta tggctgctta tttattacat attatta 457

<210> 32420

<211> 256

<212> DNA

<213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-044-Q1-K1-A2

<400> 32420

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 gggaaggaaa gcaacaagag caacggggcc gcccgaaan aggagcaaag ccaaggcaca 120
 cgaaaacgcg acgcacggag gaggccaaac gggcaaggaa aaaaaagcgc aacgccgaag 180
 aaagacaaca caaggagagg gaaaaccacg gcggcaccca agagagagag cgggggacgc 240
 gcaacaaaaa gcacaa 256

<210> 32421
 <211> 157
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-044-Q1-K1-A3

<400> 32421

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 aaaggcaagg ggaacgnacg caaacaccan gancgngaac aagcncnnga acggagaacc 120
 nggaccaag accacgcagg ggccgaccgg ggagaag 157

<210> 32422
 <211> 312
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-044-Q1-K1-A4

<400> 32422

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 ancgcgnccg ccccnncagg gaccggcagc ggggccaann cgccccacna ggaggggagc 180
 aaacagcngc acagcngccc ggggaccgga acnccanngg ccacagcncc cagaggcgcn 240
 ggnaccccgcn gnacgcaacc aaacaaanca gcnggcgcac gaggaagcag gnggnaacag 300
 accggacacg cc 312

<210> 32423
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-G5

<400> 32423

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aaagggaagg atttattaaa aatacatgat tactttttata ttaattttata attattttaat 120
ttaatatattt tattatatattt cttttttaatt cttattttttt tttttatcat cctttttttct 180
taccttattt tttttcctgt ataataatta ttaatttttc ttattattttt tctatttatat 240
atttattatt ttttctttttt acaattttttt tttttttttt tttttttaat attattttttc 300
tattttttta ttattattttt cttttttttt tattttttat ttttattttt tctttttttat 360
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<210> 32424
<211> 197
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-044-Q1-K1-A5

<400> 32424

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ggacgcgcng gncacgcang agcnnggacn gcaggacanc aacaaggccg gcgaccggcn 120
ccggcagggg aaaagacngc gcngcagccn cngganggac aaggacaagn aacggaagga 180
gaggggcggc cggacca 197

<210> 32425
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-A6

<400> 32425

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tcagatatag aagaagcgga agcaggaagc tgaaggatat ccgtagcgaa tgaggaatag 120
gacatgcatg tgagctagcg aaaaggggaat agcacattct ctagggttcg tatcaagcgc 180
tagcaaattg agagggtcaa tcgaatccgt atcctcgagc gctgggtctg tcttctaattg 240
aggagctcct tgcttttttg atccgtgaat ccggatctgt accttcatct gaaaactatt 300
cgccggttgt ccgcattcct ctctcgagc gaaaggtgtt cccacgcaat cgctatcgct 360
gttctacga cgtagtcaat acgcattgga ataatggcat cccc 404

<210> 32426
<211> 206
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-D9

<400> 32426

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ggggcttagg aaccacaata tcaagacgtt tacctgcaag acgatcgtga aggaccttag 120
ctcgtacaat aaggtatgtt ccaaggacgc tgccaagact cccgacttga taaagtatgc 180
cgctgatacc tactacctgt tacagc 206

<210> 32427
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-E11

<400> 32427

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ggtctacatc agaatatgcy aacaccaggt tgacttgtag tatgtgggtt aagatgatga 120
tgcytgattg tcaacgggta gcattctatg tcgagttgta tattgatcaa cgcgtgagtt 180
attcgttcgt gcaaccctgg cgggttaactt gtaatgtgta agtttcgagc acaatgatag 240
cgatctatgg ttgatgtgaa ggccattcag tctcgtgcta attgactatg atcgcacaa 300
gactaattct agttcttgaa tgattga 327

<210> 32428
 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-E3

<400> 32428

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ctcacctcag agctgctgcg accgtcggca acccgtctag gtcttgtccc tgccgctttc  180
tgagcctaga acatctttgc attttggaga gtctccactc ggagctattg tacagtctcc  240
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actggagcgc tgaaacgtct gactctgagt tcatcgaaga cggctgggag gaactcgtct  360
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<210> 32429
 <211> 419
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-043-Q1-K1-E4

<400> 32429

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tctgtgaaat tgacttgagt gatgtagtgt cttctaactc actgggtcca ttcttgatg  180
aaatcaagaa gcgtgagaaa caaagaaaac gagccgcaa gaaggaagaa agtgagagag  240
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cctctcaaag tcacaacgat gtcattgtct ctctggatga ctttgaagcc ctngaaaca  360
ancgctggcc gtnccaccagt ccaccagcga gtgaaaggaa gctttctctg atgtaacac  419
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<210> 32430
 <211> 360
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-E5

<400> 32430

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 tctatacaca ggggttacgta tgggcaatat tgaaactgtc ctttcaatag tatcgctgct 180
 gttctttttg ctgctttcgt aattgccgga actattttgg atggaacagc aactacccta 240
 atcgaattat ttgggcctac tcgttatcaa tgggatcagg gatactttca gcaagtaata 300
 tatcgaagag ttaacgattg gttagccgca aatcttaatt tattagaaac ttgggtctaaa 360

<210> 32431

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-E6

<400> 32431

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 tctatacaaa tgattacgca tgggtactat gtatgcttac ctgctcactg gcacgcgtga 180
 tgtccttaga ccaaagacca aaaccgtctg caactattct agacgacaca ctaccatagc 240
 ctgatgaaca tcatttgagc aaccgctaga tcatagagat gctctgatac agacaccaag 300
 tattagatct actagacaag tcatgtatag tagtacatcg tagttaatga caaccttgat 360
 ctcaacttcc tataaaaaca atctgtcatg attatatgtg acat 404

<210> 32432

<211> 151

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-E8

<400> 32432

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 gggccgttcc atttttaatc ttggaatcac tattacattc aatactcatt tcttttcaca 120

ttcaatacat aatattacgt tataaactat t

151

<210> 32433
<211> 69
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-E9

<400> 32433

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aggaatttt 69

<210> 32434
<211> 477
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-F1

<400> 32434

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atgagcaggg gccggtggag gtggcgcgcg cggaggccgt ccgagatgga gtacatatcc 120

cctgagagaa aattggaggg gacttgtgga gatcctgggc cgttattgcc gaccaaggtg 180

gcagcttggt ggaccacttg ggttatcaag ggggaggaat tccacaacat gagtcttcaa 240

actggatca tggacttttg gttgatccag ctggtgcaat tccgtattta tctacagatt 300

ctacgccctt catgaatgat caaatcactt gcaatgttat aaaatctgct tcagctagtc 360

cagaatcttg tacaaaacaa ccttaagaac ctcttaatgt agaatctgat gtacagaatg 420

acgcaactga acaaaatggt cacaatagta actttgaaag aaccaaggtg taatttt 477

<210> 32435
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-F10

<400> 32435

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cgcccgggga gacgttgccg tcaccctcgc actctcccca atcagcgggg ggtcaatccg 120
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 ggaggttcag aagcgggatc tcccggatct caggtcacaa ggccgtctct gggttctcta 240
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 gcgactagga gtggcatcag tgggaggaga gggtaagact taggggtggaa gatggcgata 420
 caaggcatga gttggaga 438

<210> 32436
 <211> 408
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-043-Q1-K1-F11
 <400> 32436

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 ggtcatcacc gaccgggaga cggggaggtc tcgcggttc ggcttcgta ctttctcctt 240
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 catcacggtt aaccaggccc agtcccgtgg cggtggtgtg ggctgctgtg gctacggcgg 360
 ctgtcgcggc ggctgcggct attgttgccg gcgccgtgac ggcggtta 408

<210> 32437
 <211> 323
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3068-043-Q1-K1-F2
 <400> 32437

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tgcgcgcctc gggcccgggg aggcgatggc acggtgctgg gcgacctgcc ggagaactgc 180
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 cgcacgttcc acgacgccgc gtnctgggac ggtgtctggg agtccaagct gctgacgaac 300
 tacgtgccgc ctctcgccgt cgc 323

<210> 32438
 <211> 226
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-F3

<400> 32438

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 gaaacttaaa ttaccattgc tgatggttta ttcgaaagac tcaaactcat atataaagta 180
 aagtaatcca atttggattc ttgtgtttgt tataagaaaa ataaaa 226

<210> 32439
 <211> 466
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-F5

<400> 32439

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 atgagcgcct ggcgcacgcg cgggatactt cagccctgg aagggtggac cgtgcacgag 120
 tgtggggacg ccatggtgca tgctgagaaa gcatggtcag ctgctattag gcacggattc 180
 gttcctttga cgaaagcctg aaagcctgta cgcaactcta gacgccattc gacgatggct 240
 ggaaaactac gtttcagcaa tcggtagcac aaattctccc cagctacaga agccgactat 300
 atggtctgct tgacgagtcg tccagggagg cagggcgtga tgaatggcga ccttgattcc 360
 aacagcatat agtaactata tatatagtta tggtgtggca ttgtatgatg caagtgcgag 420
 aaactgcttt gtggctgtgt ggggtgacata taaaatttt aaattt 466

<210> 32440

<211> 397
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-043-Q1-K1-F6

 <400> 32440

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 cgcggttac ttcatcagct tgcgcaccaa gtacggctac ctgctctctg gcaccgcaca 180
 ctggctcagg ctacagacca ccacgtactg cccaattgtg gactagactc taccaagcga 240
 gaagtacttc accgccgaaa ccggccgaac tacacgtgct ctgctacaga cgcgccgtct 300
 atgtacgcca caactagtca tgtagcatac tgcaaagcgg taacaaatga actgatacac 360
 aagttggtat aaaaactata tgaacaagtg tgaggtg 397

<210> 32441
 <211> 443
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-043-Q1-K1-F7

 <400> 32441

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 ctgcccggct tacttcatca gcttctcac cagctatggc tacctgctct ctggcatcgc 180
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 cgagaggtcc atcaccgccg aaaccgccc acctccacgt gctctgctac agccgcgccg 300
 tctatgtacg ccacaccttg tcatgtcgca tactgcatag cggtactga tgaactgata 360
 cacaagttgg aataaaaaga atatgaacaa gtgtgatgtg atatagtgat ggtaaccag 420
 tgtatcactg tgattacata tat 443

<210> 32442
 <211> 156
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-F8

<400> 32442

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gttgggactc aggagaaatc gggggatgct tgtcgctctg ctacgacata cctgacacca 120
gcgtgggtac ctcatgagc ttgctcacca agtatg 156

<210> 32443

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-F9

<400> 32443

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aaaaaaaaa ggaagatttt aaaaaaaaaa aaagacaaaa aaaaaaaaaa aaaaataaaa 120
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaatg cctaccatat ctaaataatc 180
caaacttact tacccttct ttcaaacttc atacctctcc aataatttcc cctaaatcca 240
atatttcac ctccatttaa caccaatcta acttttaaaa ccttaccttt acctaattta 300
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<210> 32444

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-D7

<400> 32444

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gagttcgatg gagatccagg tatctggcta atcaactact cttagagagg tcaatctaga 180
actgaactag gaagaaattg ctgacatgct cagaagactg gacacactat atatatatag 240
catctacctt gagcatagca acctcacgct caagaattgc gacgtatgac tcatgttgat 300
acaggaaatt ccttgcaatc tgtgagaact gcaagcaa at gctattgcca aaatatacaa 360

tgcaactataa tgtgtattat aatcattttt ttcgaaactt atttgtgcaa 410

<210> 32445
<211> 252
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-G11

<400> 32445

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tgaccgtcca gactcatacg tccacctaaa actctcagca accataagac cattaattga 120
atacaggagc tacactgact gatgagctcg ttgtgtccag agatcattcc ttaagaacta 180
taacatagcg atatcctatg ataccaagga ttacacatgc acgtaacgag acaaaagcga 240
tcatgcgga aa 252

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<211> 456
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-043-Q1-K1-B2

<400> 32446

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ctacttctcc tagtcttgtt gcactctcac agggctctaca gaatgaggac ttctccgcaa 180
gccagctaag taaaatgttc ggatctcatg caacgatgat ggccaacacc cttcgcacac 240
caatcattgt atttacacag acagggtcca tggctgtcct cctgagccac tatcgtccct 300
cgtctacact atttgcattt acaaacgagg aacgagtga gcaacggcta gcactctacc 360
aaggcgtcat ccctattcac atgcagttct ctgacgacgc agaagaaact ttcttcagag 420
caattagcag cttgctgaaa gcacaatatg tgaaga 456

<210> 32447
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-B5

<400> 32447

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 ccctgaattg acctttgtgt caccaattgc tgttgttggg ggacagaaga tctccctcat 180
 tcttaaaggc cgcaatctat ctattcctgg cacacagatc cattgtacaa gtacaggaaa 240
 gtacatatcc aaagaagttc tgtgctcagc atatccaggt accatatatg atgattcagg 300
 tgtggagact tttgacttgc caggacaacc agattttatt cttgggcgct gctttattga 360
 ggtggaaaac aggttcaggg gtaacagctt ccctgttatt gttgcaagtt caagtgtttg 420
 ccaggagtgt agaagtctag aagtgg 446

<210> 32448

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-B7

<400> 32448

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 gcttcgtcgg cggcctcgcc tgggccacgg acgaccactc cctccacaac gccttcagca 180
 cctacggcga ggtcctcgag tccaagatca tcctcgatcg ggagacgcag aggtcccgcg 240
 gcttcggctt cgtcaccttc tccacggagg aggcgatgcg gaacgccatc gagggcatga 300
 acggcaagga gctggacggc cgcaacatca ccgtcaacga ggcccagtcc cgcggcggcc 360
 gtggaggcgg cggcggcggc gggtacggtg gtggccgtgg aggcggcggc tacggcgggtg 420
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<210> 32449

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-B8

<400> 32449

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cggtgtatca tttcaagggg gagcggatcg agatggcaac gtctgatgta gagtaccgat 120

gcttcatcag cggactctcc tgggccacgg acgaccactc cctccacaac tccttcagca 180

cctacggcga ggtcctcgag tccaagatca tactcaatcg cgagacgcat aggtaccaca 240

gcttatgcta cgtcaccttc tccactgagg aggcgatgct gaacgccatc aagggcatga 300

actgcaaaga gctggacggc cgtaacatca ccgtcaacta ggccc 345

<210> 32450

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-C1

<400> 32450

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gtacgagcac acgtggcctt tcctaccgtt gccacaagc aacagagcca agaatcagt 120

cgcgctagag cgagcaagga cgatgctggg atgcttctcg cggctgctgc tgccgacgac 180

agctgcgccg gagcccatgc cggcggcgctc cgacgacgcg ttcacgtcga cggcctcggc 240

ggcgggctcc acctcgctgt gctcgtggtc gtctcggcg cgctgcaagg acgactagga 300

ccactgcagc tgcacggagg tcaaggaccc g 331

<210> 32451

<211> 354

<212> DNA

<213> Zea mays

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<400> 32451

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gagcctctag ccctagctag tagctagcca ctcggtcgtg tagtcatcag ccttctgac 120

gtcaccatg gccactgccg aggtccagac cccgaccgtc gtggcgaccg aggaagcgcc 180

ggtggtggag accccggctc cgcccggcgt cgtgcccag gaggtgccc ccgtcgccga 240

ggccaaggtg gaggagccag ctgccccggc ggagaccgag ccagctgccg ccgctgagcc 300
cgaggcggcc cccgtggcgg cggatgaaga gacgccaaag gaggaagaga cggc 354

<210> 32452
<211> 460
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-043-Q1-K1-C2

<400> 32452

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gaaaatggca tgaagatgca cggttataat ggcagccaac tttgggatac agctttcaca 180
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cacaactata tcaagaattc acaggttctt gatgactgcc ctggtgatct gaatgactgg 300
taccgccaca catctaaagg tgcattggcca ttctcaactg ctgatcatgg ttggcctata 360
tctgattgca ctgcttaaag actaaaggcc tcattattgt tatcaaagat ctcttccaaa 420
atattgtggtg aaccattga agcctataga ttttatgatg 460

<210> 32453
<211> 251
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-C3

<400> 32453

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catatcaaat ccagggtggc tgatactcct aaccttacct gtcaaatact atccactggc 120
attgcttcca caagatcctg attgctacat gtttagctta tccatagagc ctacacacct 180
tagcctcttt ccatgtcatg cttcatgtaa gtgacctga acattctatc aatttttatg 240
ataatgccct a 251

<210> 32454

<211> 454
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-043-Q1-K1-C6

 <400> 32454

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 tcgtcgggct cggtacggac gaggaatccc tgacgagggt gatcgtttcg cgcgccgaga 180
 tcgacatgaa gaagggtgaag gaggagtaca aggtcaggta ccgcacgacg gttaccagcg 240
 acgtcaacgg cgacacttcc ggatactaca attccatctt gtcactcta gtcggccctg 300
 agtgaatgag catggccacg agtgatcctt gttgggtcaa gttgagaccg tagtgcaagc 360
 tcatcaaaga aggagggtgtg gccaatattga catctacaac tatagaaggc actaaagctt 420
 taacttttct agtcattggt gattgtacca aaaa 454

<210> 32455
 <211> 145
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-043-Q1-K1-C8

 <400> 32455

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 gagcgtggat attctagcta gctacgggca tatattttgc tgtgtatata tgtatgtgta 120
 tcgacggtct catcacctac ctcta 145

<210> 32456
 <211> 274
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-043-Q1-K1-C9

 <400> 32456

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 gtccttaaca ggttcttgag cctaaactcc agatgttgct gaagcacaag ctacagctgc 120

tgatgaggaa gacaattatg atgttgacct ccatgttcag gagactcaac atgagcacia 180
 agctgctgaa gatcgtactg caacgtccaa tgcttctatc acgataacag aatctttaat 240
 gtcatgagat ttacttgatg tgaatccata tgac 274

<210> 32457
 <211> 204
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-D1

<400> 32457

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 caaacgggaa gggctaaaca aaagttcgag taagaaaaaa aaaggggcgg ccactttata 120
 gagacaaaat ttaccacctc tttaattata tcccatatct ctactgtggt gttacctaata 180
 tttaattaac tgaccttgat ctaa 204

<210> 32458
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-D11

<400> 32458

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 attgacgccg tcagcgccaa caaggcccgc gacggtggcg ccgatgcccc gacaccgtcg 180
 gcggggcacg gccgccgctg gctgcagcgg gcgtgctgag gcgtagccat cgccggcgcg 240
 ctggccgcgg ctgcggtgct gtcgctgtcg ctcaccgtgc tcagggtgag ggacccgacg 300
 ctgtccatgg agtcggtggc cgtcaggcgc ttcagcgtgc gcctggacgc cgcgttcccc 360
 gcgcgccccg tcgggatcaa cgtcacgc 388

<210> 32459
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-D12

<400> 32459

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gattttgggtg actttgtccg agctctaaat gtgtttcatc caaatatccc aatggaagaa 120
aaagtcgatt tctcgttcaa gctatacgat atggatggca cagggtttat tgaacgaaag 180
gaggttaagc agatgttaat tgctctccta ggagaatcag aaatgaggct atctgatgag 240
atcattgaga caatcctgga taagacattt tcagatgctg atgcaaatca agatggaaaa 300
atagatagaa cagagtggga gaattttgtc acaagaaatc cttccttgat gaagataatg 360
actctgccat acctcaagga cattacaaca acattcccta gctttgtgtt taac 414

<210> 32460

<211> 167

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-D3

<400> 32460

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aaacttaact gacaaatctt atacgtcaac tgaactatat gatgatctct gccatcctcc 120
ccaacgttac cctgctattg ctctaaacgt tatacctctc ctccatt 167

<210> 32461

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-B12

<400> 32461

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ccggcgccgg cgacgactac gacagcggct acaacagcaa gtccggcact gatgactacg 180
gccgtggcga aagtggctac aacaagtcgg gcggcgatga cgactacggc cgcagcggcg 240
gcgatgggta cggcaggtcc ggcggcgacg actacggccg tggcaccggc ggcggtggct 300

acaacaagtc cggcggcgga aacgactacg gccgcaacgg cggcgacgac tacggtcgtg 360
gcaccggctg ccgcgggtac aacaagtccg gaaacgacgg ctacgacagc ggggtacaaca 420
gatcgggcac caccaacgac 440

<210> 32462
<211> 453
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-043-Q1-K1-D5

<400> 32462

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ggctaccacg tagctacgta tatgccggaa ctgaactgag ctgagaaagc tcaggcgtga 180
actgaactag atggtgtttc ctgccatcct cccaagggtg gccgtgcat tgctcttcac 240
gttctaccgc gccgccagga agctcaggcg ccacgccttc cagctctaca accgtaggac 300
cgccgccaag ccgccttcgt tctccgtctc ccagcagcag gccggtgccg ccaccttcaa 360
gaccgacgcc gccatccctg acgcgcgtcg ccggaccgtc gtctgtgacg tgcacggagc 420
cctgctgcgc tctnccgcgc tcttccccta ctt 453

<210> 32463
<211> 116
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-D6

<400> 32463

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taggggtcgt ttaaagggtc taagatgcat atcactcctc tacaacattc tctaca 116

<210> 32464
<211> 215
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-G3

<400> 32464
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catcgaggaa ccgctgctcc tgaactgtct gtctgattct gttcatttgt tgctgtgtaa 120
gttgggcttg tgccaagctt gaattctctt gtgaaagagt ttctcaatgc tgctgatgac 180
aagtggaagg aagtcctctc tttaaattgaa gaaga 215

<210> 32465
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-G7

<400> 32465
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caaggccatc gacatcaacc cggggcagct caagtgtgc accaactgca acttctcctt 180
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cgtcgtcgcc gtgcacgcct tctactcggg caacaacaag ttcaggtgca ccgacacctt 300
cctcggcatg tgcgggccca agtgctagat cagagaggaa gaacgcgcgc tgctgctagc 360
tgctatagct tcgttc 376

<210> 32466
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-G9

<400> 32466
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gtttcctcaa gcagagtagg ctgcgtttac ctagaaaacc tagttttggc tggttacttg 180
catgatggtc gaccgtttca gatggagttt gacagcaaac ccgttgtgtt aaccatgcgt 240
ggcgtatcag ccgatgtttc atgcatgcta ctgtcttttt ctttggttgg tttcgtacca 300

tagatagacg tgtgtagcga ccatcgatgg aaaaaaacct tgcacatctg gaacggcatg 360
catctcagtt attagcccct gctgttgac atgcaaaaa 399

<210> 32467
<211> 475
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-H10

<400> 32467

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acttgtgaag atagtgaaga aaaagacgga ttaccagtt cgagaaaaaa tatttcttct 180
gtagatgca acacaaacat cccttggtgg agctaaagca aggttcctc agtactatga 240
ggcactat gagttggtgt ctgctggtgt gcaattttca aatcggccaa atgttcttgt 300
cacacgagca gaagtgccag tcccagaaac gagaacagaa ccaaataatg aaagtttatc 360
gaccggttg actgaagctc aacaagaagt gcacactcag cctgttctg atgcaagtat 420
agtccagaaa gcctctagtg tcatggaagt attgagggat gtgcctaatt ctatg 475

<210> 32468
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-H12

<400> 32468

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aagcgtcggc gactccttca ggcacacctc catcaaggcc tacgtggccg agttcatcgc 180
caccctctc ttogtcttcg cggcgctcgg ttccgccatc gcctacgggc aactgacgaa 240
tggcggcgcg ctggaccggg tgggcctggt ggcgatcgcg atcgcgcacg cgctggcgct 300
gttcgtgggc gtgtccgtcg cggcgaacat ctggggcggc cacctgaacc cggccgtgac 360
gttcgggctg gccgtggggc ggcacatcac catcctgacg ggcgtcttc 409

<210> 32469
<211> 163
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-H3

<400> 32469

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gctggtcgtg ccatcggtag agttaggtcc cgtttgtttt gaggaactaa aaattaatcc 120
ctctatttta gtcaaaaaaa aataaaaaaa aaaataataa ata 163

<210> 32470
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-H4

<400> 32470

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atgtggtgtt tggggggcag ctcacggagg gggccgacgg cctcaacaag acgaagagga 180
agacgggctc ctcgccaag gggaaggaga caacagggac cgggatatcc aaggccgaga 240
gcgccttcga cgtcgtcgca actgcctacc gtgatcgta ggctagccag atcacctttt 300
cccaggacgg gaccgttcct accaggaagg caacttcagt ggctgggggtg gcaaggcagc 360
gtgagcttag ccataccgtc cagagtgagg gggacag 397

<210> 32471
<211> 271
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-H5

<400> 32471

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tcgcctgggc cacggacgac cactccctcc acaacgcctt cagcacctac tgcgaggtcc 180
 tcgagtccaa gatcatcctc gatcgggaga cgcagaggtc ccgcggttc tgcttcgtca 240
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<210> 32472
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-H6

<400> 32472

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 tggcgggtggc gctgctggcg gagtgggcca cggcgggcgc gcctcggaag cccgtggacg 180
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 gcgggcggga ggtgcagctg tacctggaca agtccaccgg cacgggcttt cagacgcggg 300
 gctcctacct cttcgccac ttcagcatgc acatgaagct cgtcggctgc gactccgcgg 360
 gcaccgtcac ggccttctac ctgtcgtcgc agaactcgga gcacgacgag atcg 414

<210> 32473
 <211> 118
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-H7

<400> 32473

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<210> 32474
 <211> 233
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-A11

<400> 32474

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aagaaaattt aaaaaaaaaa aaaaaaaaaa acaataaaaa aaaaaaaaaa aaaaaaaaaa 120
atatctcttt tttttcaaat tctcattcct tactttcttct ttttaatttt ttattcttct 180
cttttctacc ctcatittcaa ttcctttttc tttctttaaac tatttcttct cct 233

<210> 32475
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-A12

<400> 32475

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ccgaccaaag ttgaccgcaa cggggccta 389

<210> 32476
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-A3

<400> 32476

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gcaccgacag ctgctgaaaa gatccatggt ttctactgat ggtagcagat acatgtgtag 180
attgattgat acatcatcgg acggatggaa gaattgatac cacacaaact gctatatata 240
tatgtactgt gagtaaacag ttaaaattaa acttgtgaga tataccgtac atatgaagag 300
ctagctagta gtgagtgata cagtgggtaa gtgaatcata tatagtcgta gaaacaatca 360

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452

<210> 32479
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-G2

<400> 32479

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ccgctgccga gacagaagca gaaccggcag ccgctgagcc cgaggctgct gctgctgctg 360
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<210> 32480
<211> 319
<212> DNA
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<223> Clone ID: LIB3068-043-Q1-K1-A9

<400> 32480

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ccacggtgac agatgtcgtg tccacgggcg agaacgagta ctactagtac aagaaggagg 240
agaagcagca caagcacaag cagcacctct gcgaggccgc cgccatcgac agcggcgcct 300
tcgcactcta cgagaagca 319

<210> 32481
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-B11

<400> 32481

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ctttggtctt gcactataat ccagggttgt acatgtcacc tgctcagctt ttgcacggcg 180
tatttagacc ttgctcgaca aaacttgatc cttgcatttc tcaaggataa cttataaaaa 240
cagacagtgc tgaaaatggc actgttcttc accaagtact ttaatggata cacttaacat 300
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<210> 32482

<211> 487

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-D6

<400> 32482

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ggaagcgcaa cgttcttctt cactgttgtt gcgctgaagt tcttggttgg ctatggcctt 180
gagctctctc gcctggttcc tctcatcatt ttccacctga aaaggaagta cctatgcaag 240
acggaggaag aagtgagagc ggcattgggt ccagtggatc tgggatataa caccagggta 300
ccaaatgaca tgctcatcgc aacagttgtt ctgtgctact cagtcattgc gcctttgatt 360
attccgttcg gtgtcgcata ctttgccctc ggatggctta tagcaagaaa tcagatcctg 420
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<210> 32483

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-D7

<400> 32483

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gttatttggg ttagtatggg acgttaatta atcacgtgag ttggagggca agagttggat 180
taatctcaag gtgaggctga cgattgaaca tgaagatttg atgatctggt caaataccag 240
gaggagagat actcaccaag tggatcatcat ttaacaacac tatacgtagt gttaatccaa 300
gggtgaagtt ttgttctgtt gtggatgggt ctaagtgccg gtgggctcgg ctttcttata 360
taagtatatc ccatcttttag cttctt 386

<210> 32484
<211> 52
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-E10

<400> 32484

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<210> 32485
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-E4

<400> 32485

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acacagcccc tccaccgtgt tcgtttccaa cctcccctac accttcaagt cctccgatct 180
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gtcggagaag agtcgaggct tcgggttcgt gcaatttgca actgttcaag atgctgatcg 300
agctcttcaa caaaagaatg gatctcctgt tgctggtagg aaaatcagag ttaagctagc 360
aatgaatcgt gctccactga aggaacgttt gcaaaagggtg aacatgcaag tgaaggactc 420
tgatg 425

<210> 32486
 <211> 399
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-042-Q1-K1-E5

<400> 32486

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tgcggtttca cttgctgtgt gcaaagctgg agctatggtg aagaagattc ctctttacca 180
gcacatcgca aatcttgctg ggaacaaaac tctggtgctc cctgtacctg cttttaatgt 240
gattaatgga gggtcacatg ctggaaacaa gcttgccatg catgagttca tgatcctncc 300
aactggtgcc tcctcgttca aggaggccat gaagatggga gttgaggtgt accacaacct 360
gaagagcata atcaagaaga agtacggtca ggatgcgac 399
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<210> 32487
 <211> 482
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-E6

<400> 32487

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cctactccga caaccagccg ggggtgctga tccaggtgta cgaggagag cgcgccagga 180
ccaaggacaa caacctcctt ggcaagttcg agctgtccgg catcccgccg gcgcctcgcg 240
gcgtgcccc aatcacctgt tgcttcgaca tcgacgcaa cggcattctg aacgtatcag 300
cggaggacaa gactacagga cagaagaaca agatcaccat caccaacgac aaggggcggc 360
tgagcaagga ggagatcgag aagatggtgc atgacgctga gaagtacaaa gctgatgacg 420
aggagcatag gaagaaggtg gacgccaaag actcgctgga gaactacgcc tacaacatgc 480
gc 482
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<210> 32488

<211> 467
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-E8

<400> 32488

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 cctggccgtg tacaggaact acacgtacga cgagtactac gccaaagttct ggagcaggaa 180
 cctggaccag gagcactgcc tcgagctctt cagaacctag cgaatcggat acggatggat 240
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 atgtttgtcc attcaagggt gtatcaatca aggctgtggg cgttgcaatt cttccgatcc 360
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<210> 32489
 <211> 381
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-E9

<400> 32489

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 ggtcaacagt tcggccaccg cgttcgtgct gtccacgggc gggttcaccg gcaaccggtt 180
 ccacgactac acggacgtgc tcatcccggc cttcatcacg gcgcaccgcg tccgcgggca 240
 ggtccagttc ctggtgagca gctacaagtc gtggtggatg aaccgctaca tccagatctt 300
 ccagcagatg agccggcacg aggtggtgga catcgacgcg gacgacgagg tccggtgcta 360
 ccgcagcgtg gtggtggggg c 381

<210> 32490
 <211> 253
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-F10

<400> 32490

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aaaaaaaaaga aaaaaagaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaataaaaaa aaaaaaatta taaaaaaaaa 180
aaaattaata aaaataaaaa actaaataaa atataaaaaa atattaatta aataaaataa 240
taactaataa aaa 253

<210> 32491

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-F11

<400> 32491

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ctctccttct ctcttgetct cctcttttct tacctcttct tttcttgtca ccttactttc 180
atttaattct ccttcatttt acaacatttt tcctttgtta aactccttct ttacccaaat 240
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<210> 32492

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-F2

<400> 32492

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cggcggagct ggtggcggcg ggcagccgga cgccgtcgcc caagacgaag gcgtcgcagc 180
tggtggggcg cttcctggcc gcgtccgagc cggccgtgtc cgtgcagctc ggcgaccacg 240
gtcacctcgc ctactccac accaaccagg cgcttctccg ccccggtcg ttcgcggcca 300

atgacgaggt gttctgcctg ttcgaggggg tgctggacaa cctgtgtcgt ctgagccagc 360
 agcacgggct gtcaagcaag ggcgcc 386

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 <211> 229
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-042-Q1-K1-F4

<400> 32493

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 atatttcaag tcccaggcaa ntttcaataa nttatctggc ctctagacac cagaataata 180
 atagacattt attcctcata ttatacacat ataagttcaa attctcaat 229

<210> 32494
 <211> 219
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-F5

<400> 32494

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 gttagaaaaa aaaaaaaaga aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa atacaaaaaa aaaaataata 180
 aataaaacaa aacttaaata aaaaaacaag taagttaat 219

<210> 32495
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-F6

<400> 32495

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ggcaatgttg gagaaactat ggctctagct acccaatcac tattagtttt tccgttgctt 180
 tccgaccgaa cgattctaata tcacagtctg gtcttctctat ggattctgtg aatgacgggtg 240
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 ttgggggttg gagatcttgc ccattcctga gggatgggcg taattcatcc ttgggacgcg 360
 catctagaga ccgttcaggg acttgccagc caccagttac caaccagggg acagcttgcc 420
 agatatcgtg catcgttgac act 443

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 <211> 231
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 32496

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 tggatcaatg gaaggggttg gtcctagcca gccggcaaag atgagctgct gatggtaatg 180
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<210> 32497
 <211> 173
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-G1

<400> 32497

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 caaactagcc aactacagct ccttctacaa catcgttcac aacttatcca.tga 173

<210> 32498
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-D2

<400> 32498

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<210> 32499

<211> 470

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-042-Q1-K1-A8

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ttctaaggag gaaattgttg ttgagctcac aaatctatat gaccatttct tccttactat 420
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<210> 32500

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-B3

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ttcagcaaaa gaagagaagt caaaaacacg caaacaagga aaatgagttg gtggtggaat 180

gaatagactt cgtgagagat actgagatat tctgtcact aatggatgcc aagagattgg 240

cgatgcttgt attctttgag aagaggatcat gttgacgcgt ttggacatgg tttctggaaa 300

catccttgaa aggctgttgt ttgcttcggt tgatgacaat gggaaacctt 350

<210> 32501

<211> 427

<212> DNA

<213> Zea mays

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<400> 32501

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aggagaaccg aaagttgagc tttttccggc agggcatctg ctagagccgg ccggttgaag 180

caggggagcg agaggaggag ggcagccgaa caggagcatc gcagtgggtg ttaagcagca 240

gcaacgacga cgacgacgac gctgagaggt ttccccgttc ccgacggcac gtccaccgag 300

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<211> 383

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-042-Q1-K1-B5

<400> 32502

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<210> 32503
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-B6

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<210> 32504
<211> 495
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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tgtttcaatt tttgcagagg ttttgtgcaa tggaacagaa cttgccactg atgaaactag 360
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<210> 32505
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-B9

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 gggcctggct ctacctgggc aaaacgccat taccaacgtg taggcggtaa gggagtagtg 180
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<210> 32506
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-C1

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 gattttatga tctgttttat gttggaaatg ggccagcagc agttactatg ccctcttttg 300

ctgagctacg agtccggcca ttttcacata aagtcgattg ggaagctgtg ttgggtccaca 360
gaggtgaaga ccctgagcct atgaaacttc agcaggagggc cttaatcatg aatcatgaac 420
ttcattcgag aacttcagaa tctgt 445

<210> 32507
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<223> Clone ID: LIB3068-042-Q1-K1-C10

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acgagaagca cgaggcgaag aaggaccccg agcacgcgca caggcacaag atcacggagg 360
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agaagaagga ccacaagga 439

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<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-C11

<400> 32508

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ggttgacgcc ataaactctc tctctctctc tctctctctc gccttaaata aatgaacggc 180
cgaattggaa cctactagca ataagtttcg tcagcgccgc gcgcgcacat gtgcagggtg 240
ccgtgcgagt acaagcacag gaacctgtcg gtgagggtgc aggagaagag gcgctccccg 300
gggggcccctg gcgacctcgc catcaggttt ctctaccatg gcggccagac cgacatcgtc 360

gccgtcgacg tcgcgcatgt cgggagtcgg gttattgctg atacaacgga gctttcttg 419

<210> 32509
<211> 208
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-C5

<400> 32509

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agtataacaa ggtatgctgg ctgcgtcgaa atatattaca tacactgcag ccatgatttg 180
cgtgtttgtat agtaatgcat cttaagct 208

<210> 32510
<211> 196
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-C7

<400> 32510

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aaaaaaaaaga aaaaaaaaaa aaagaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaca 120
aaaaaaaaaaa aaaataaaac aaaaattaat ctacaataaa ctaaataaaa tataaatcaa 180
tatacaaaaa aatcaa 196

<210> 32511
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-C9

<400> 32511

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gaggcagagg cttgccagcc tacctagctc gtcggggccc tatggagatc cagcaccacc 180

gggggctggg caactccaag gttgtcaagg tgcagagcga ggaggcgtgg gatctgttca 240
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 tgacgtccct gtccatgaac tacaagtttg aggagctggc gcagaccac cccgaggtct 360
 tgttcctcta cgtggacgtc gacgatgtcc atagtgtttc atccaggtag ggagtgaagg 420
 ccatgccgac gttcttcttc atcaagagca a 451

<210> 32512
 <211> 298
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-D1

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 ttaaaattaa cttaaccata ttttaaaaca tcttaaatct tcaaaaccct atcctttccc 180
 aacctaatta cctttaaacc cattatcctt ttaccaactt acttaataac caataatccc 240
 tcaaaaaatc caatttttaa aaatttttca accttaattt ataattttta tcttcctt 298

<210> 32513
 <211> 318
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-D10

<400> 32513
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 aggctccaat tttaacatat cctgccttct acctcatagc tccaatatta tatcccttaa 180
 tattaatccc ctaacactaa ttttacaacc tcttactac aaaaacctta ccgttaaaaa 240
 acttaatctc cttaaataaa atcccttttt tcccatcttg ctttataccg atgaggtcct 300
 aaccaatagc ccttccca 318

<210> 32514
 <211> 465
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<223> unsure at all n locations
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<400> 32514

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attacaatcc ggaacagaat gaagataatg tattggcaag aatgttagac cataaggaag 180
ctatcatatc tcatttaagt tgggctagcc tcttcttagg attccatacc ttgggccttt 240
atgttcataa cgacgttatg cttgcttttg gtactccaga aaagcaaadc ttgattgaac 300
ctatatttgc ccaatggata caatctgctc atggtaagac gacatatggg ttcgatatac 360
tcttatcttc aacgaatggc cccgctttca atgcatgtcg aaacatatgg tttgcccgat 420
ggttgaatgc tgntaatgag aatagtaatt cgcttttctt aacaa 465
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<210> 32515
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-A6

<400> 32515

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ctgatcgcca tcactctgcc tccgctgggg gtgttcctta agtacgggtg cggccacgag 180
ttctggatct gcctctctct caccttcttc ggctacatcc ccggcatcat ctacgccatc 240
tacgccatca ccaagaacaa ctagctagtc atccttgccg acgacgatcc atgtctctgt 300
atctgcgtct gttcatatgc ctgatgccga cttgtgctgt atgtagttgc ttgaattcaa 360
tcgtgttttg ctaccgtacc caccctatgc atcatctgtc ccgcgacgca ataatcatag 420
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<210> 32516
 <211> 261
 <212> DNA

<213> Zea mays
 <223> Clone ID: LIB3068-041-Q1-K1-G1
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 cctgtgcgct gccgcgggcc ctgccgtcgc gcagaactgc ggctgccagc ctaacttctg 180
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<210> 32517
 <211> 446
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-041-Q1-K1-G11
 <400> 32517
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 aagtgtggga gcacggtgcc aacttactcg gctacgagag gcactctcct caacagcagg 180
 ccccatcaca tggttggaat ggtttgttct ttcatccctt ggaagctgca gcagagccaa 240
 ccctgcagat cgggttcgct cctgagcata tgaataactt catgccaaca tggctaccct 300
 gaagatggat cttgaggcaa aggaaataaa taaagatgcg gtggcagcat catactctat 360
 gcaagctaag aatgacagct gtgtttcagt cacatatatg atctagtctg tgtgtcaatg 420
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<210> 32518
 <211> 434
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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aggtccagcc	acgcccgcc	caccgacgcc	gacgacgcga	ttcgtctccc	cagcagcttt	180
ggcgctggtg	gtcgaccgtg	gaattgctgc	gactccgcta	tcaaggacgc	ctccctgccg	240
gcgtggcgct	gcaacgacgt	ggtggacaag	tgctccggcg	actgccaaga	ctgcgaagcg	300
tcgccggccg	gcgacggctt	cgtctgcggg	gactttatct	taagcctgac	cgagcccccg	360
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cccaactgca	tggtg					434

<210>	32519
<211>	441
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ggatgcgatg	ccttggcatt	cccaatacta	agaatttcaa	tgaattaca	tccatcgagg	180
aggcgaaagc	gctctgggag	aaaattcaag	cacgacaagg	ggtgaacaag	tggcggccag	240
acctagaaga	agagtatgaa	gatcaggaag	gcaacatcta	caacaagaag	acctacactg	300
acctgcagcg	tcaaagcctg	atctagggct	cctgctggtt	aaagttgtcg	ggatttgttc	360
agaacttata	tcatgtagtt	gtaactctga	aaatattggc	ccatctggca	tacattntat	420
gtaataagat	gatttttccg	g				441

ccctagggga gcgtcggaga ggaatcgcaa agagggccgt ctcatccgag ttaaggaagc 120
catggagcac aaggaggctg ggtgccaggc ccccgagga cccatcctct gcatcaataa 180
ctggggcttc ttcggcagcg cggcgaccat gaacatgtgc tctaagtgcc acaaggagat 240
ga 242

<210> 32521
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-G4

<400> 32521

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aagcttcga caccaagcc aaccccggcg tcgaccaccc tttttccaa gcctccgacg 180
cccaagccga ccccgccgac gtaaaactcca agccccaagc cttcacacac gcgatgccca 240
agccgaaccc accgacgtac acccctttcc caaagccttc gacgcccaag ccgtcccccac 300
cgacgtacac cccttcccca aagtctatca caccaagcc gaccccaacg acgtacactc 360
ccaca 365

<210> 32522
<211> 273
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-G5

<400> 32522

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aaactgttgg catatcattg aatttgctta taaacgtggg gaaacataac ttgcctggga 180
agtgggtggt gtcagcctgc gatcgtgaac tgtaacttat cgaaaatgca acggagtttg 240
ggactctact atatgatttg tttcagtttt tct 273

<210> 32523

<211> 390
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-041-Q1-K1-G8

 <400> 32523

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 ttcaagggtc gtctggttca gtactctgtc gctatgggtc tgcattgcgg tatcggtttt 180
 gcaagtccga caccttcaag ggttcttcag aaagaagaag ctcatttaga gtctctctgt 240
 aagatgttgc gctgtggttc agatgttggt caccttggaa ggggtacaatt ttgcctttta 300
 catggaacat ttcacaccag tgatgactga tgggctactt gtactgtatg taatttaagt 360
 acgattggat cgaaaatcta tatttcaggg 390

<210> 32524
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-041-Q1-K1-G9

 <400> 32524

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaag gggcgccctt tttaaagttc 180
 ccaattttac ttccccttcc ttccaaattt aaattttttt tttagggtcc cctaattaaa 240
 attaattgcc ctttttttta aaacttttaa atttgaaaaa ctttggtttt cccaaattta 300
 aaccctttta aaaatttccc ctttttccca ctttggttaa taccaaaaag cccccacca 360
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<210> 32525
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-041-Q1-K1-H10

<400> 32525

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taaggccgcg ccagggccgg cgtcgctcgc gggctcgggc gcgggcgcg cggaacgcggc 180

gccgccgacg gacgtgaaca aggcgctgaa agacgagcag ttcagcgagt tccggcagct 240

ggtgcacgac acgcgcgtgg acacgcaaata caacgcgcaa ctgacggaca gctacaacgg 300

gctgaccatc atggcgccca ccaacgcgcg cttcgacaag atgaaagccg gcgtgctgaa 360

cgggctggcg ccgcaggagc agatccagat ggggctctac tgcgtgctgg cccgggtcta 420

c 421

<210> 32526

<211> 255

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-H3

<400> 32526

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cactcggttc ttgtgatcat gtcttatgca gacctgtgaa ctgtggtgtt tctgacaact 180

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<210> 32527

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-H4

<400> 32527

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tctaaaaggt taaccaacca gggcagggtta atcatgtgat tctataacca tttgacccat 180

tttttacaga atgacagtgg aattaagcaa aagatttaaa caatgtaatg acttgctgag 240
 gactgaagta ttaaagttgt gtcaagacaa caattttcaa acagggtttt ttgaaggcac 300
 tgataatagc actgttggtg atgcttacga gttgaatgta aatctaaatg tacactctgt 360
 actaactacg tgtacacatt aattgaacct atcgagcaat 400

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 <211> 301
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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 caagtcggag aaaccttctg cctaaggcgg cttttttttt cagtaagaag cttttggtgg 180
 tctgctgtgc ttaatcatgc ttttatatgg cttctacatg ttgtggttct ttcttgatct 240
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 c 301

<210> 32529
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-H7

<400> 32529

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 gtgcttgagg aaagctattg cgatagttaa acctggagtt cggttccgag aggtcggaga 180
 agtcataaac agacatgttt caatgtcagg tttatctgtg gtgaaatctt attgtggcca 240
 tggcataggg gaactgtttc actgtgcccc aaacattcct cattattcaa gaaacaaggc 300
 cgttggtatc atgaaagctg ggcagacatt tacaattgaa ccaatggtca atgcaagggt 360
 ttggaatg 368

<210> 32530
 <211> 452
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-H8

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 cctcgtcttc actacttctc gttcgggggtg gt 452

<210> 32531
 <211> 335
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-A11

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<210> 32532
 <211> 238
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-A3

<400> 32532

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aagggccgtc ggcggctcac cgcatacaact gcgatgtgcg gtgctcttca gagagctgaa 180
ccctacttac tgatgaaccg attccaaggt tgacgggccg ttaatcacag atgataac 238

<210> 32533

<211> 176

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-F9

<400> 32533

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agcaaaattt ataaaaaaaa aaatttaaata aacataaaat acaaaaaaat aacatattct 120
ttaatatcaa cctaaattct attcactctc ctactttaaa caacattctc tatttc 176

<210> 32534

<211> 159

<212> DNA

<213> Zea mays

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<400> 32534

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ttcgggcgtt cggccactcg ttctttcact cttcctccca cgcgttcaac cactcgtacg 120
tcacgcttac tctatatctc gacgagcctt tctataagt 159

<210> 32535

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-A5

<400> 32535

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 tgatcctgta gcttgatact gcgtatactg ttctttacag atgcatcgta tgcaatgcgg 240
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 <211> 354
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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 aagtcaatgg gcgcacatc aggaagcgta tccatgtccg tgtggagcat gtgc 354

<210> 32537
 <211> 60
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-D8

<400> 32537
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<210> 32538
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-D9

<400> 32538

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agcccaatct cctccgaatc cagcggccag tcaagatctg cggatgatgc catggccagt 240

ttgtcgacct tctgagatta ttcgatttgg gtggttatcc tccagcttca acttacgtat 300

tctcggaga ctatgtcgat agaagcaaac agagcctgga gactatatgc ttgctgctgg 360

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<210> 32539

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-E11

<400> 32539

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aaggttatgc gggattcgaa tgggtgtcagc agagggttctg gatttgttgc tttcaaactc 120

gctgaagatg ctaaccgagc tcttacggag atgaatggca aaatgggttg aagcaagccc 180

ctttatgtag ctcttgcgca gcgtaaagaa gacagaaagg caaagctaca ggcacaattt 240

tcacaaatgc gtctgttgc aatgggcgct tcagtaggtc ctgcgatgcc catgtttcca 300

cctggtgtcc ctggagttgg tcagcagctg ttctatggtc agccaccacc agccttcac 360

aaccctcagg ctggatttgc tttccagcaa cctctgatgc ctggtatgag gcctggtggg 420

ccaatgccga actttatgat g 441

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<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-E2

<400> 32540

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 agatggtgca gggcctgacc taccgaaagc gtcacagcta cgcgacaaaa tccaatcaga 120
 cccgggtcgt gaagacccca ggtgggaagc ttgtgtacca atacaccaag aagagggcga 180
 gcggtcccaa gtgccccgtc accgggaaga agatccaggg gatccccac ttgagacctg 240
 ccgagtacaa gaggtccagg ttgtctagga accacaggac tgттаaccgt ctttatggtg 300
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<210> 32541
 <211> 437
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 32541

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 tgcactccat cggcgtctgc tacggcacgc tgggcaacaa cctgccgtcc agcagcgacg 180
 tgggtgcagct ctacaggtcc aagggcatca aaggcatgcg catctactcc cccgacgcca 240
 aagccctcgc cgccctgcgc aactccggca tcgcgctcat cctcgacacc ggcaacggcg 300
 gcggcgctcct gggccagctc gccaggagcg cctcgttcgc ggactcgtgg gtgcagagca 360
 acgtgcggcc ctactacccc gncgtcggca ttaagtacgt cgcggtgggc aacgaggtgc 420
 anggcgacca cacgcgc 437

<210> 32542
 <211> 282
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 <213> Zea mays

<223> unsure at all n locations
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<400> 32542

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 gagacaggag cggaccgcgg ctggccaagg agctcggcag gatcgagccc aagaagctgg 120

gcacgcgggct ggttgccggc tgctgcttcg cgctgctcac ctacctctcc ttgccccggc 180
 tgtttgccat ctactcgccg gttttcgaca gctcgctgct catggtgttg aagaacatgc 240
 cgncagcaac gacgacggtg ccgggtacag ctacaggggc gc 282

<210> 32543
 <211> 211
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-E7

<400> 32543

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 ggaaagcaaa aataaaccaa tattagagaa tccaaaccaa aataatccaa catataaaat 120
 cttatcatct ctactatttc cccctactgc aatgcactga ccaacttctt acaatttgct 180
 cacttggttaa acctctactt tacccaactt a 211

<210> 32544
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-E9

<400> 32544

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 ccatggagca caaggaggct gcgtgccacg cccccgaggg acccatcctc tgcataaata 180
 actgtggctt cttcggcagc ggggcgacca tgaacatgtg ctctaagtgc cacaaggaga 240
 tgattacgaa tcaggatcag gccaaagctgg ctgcctcctc tatcgacagc attgtgaacg 300
 gcagcgacac cgtcatggag ccggatgttg ctggcagcaa cactgtagta gctgttgccc 360
 aagtcgcact gcgaacaatg aacgtgcac aaccgcgtga tggtgcccga cccagctagg 420
 ggggtggcggc tatctacaaa ggg 443

<210> 32545
 <211> 424
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-F10

<400> 32545

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ggacaagcat ctcttcacct ataataaggt agaggcaggg aggagagaag acgacatcaa 120

gaggggaacg gggatgagtt gcgggtttac ctctgctgtg atatattgta ggtgccacta 180

tgtgtattgt tccccctat ctactacgtg gcataagttg tattctagta tgttgaaagc 240

tcatggtgcc gtgctgtatc aataaagtggt tatgctcata gagggtctca agaccaaggc 300

tgcgtttgcg ctttgccact ggcttgggtg tatgggttctt ctgctgctat gccattaggg 360

tttaaggatt gtgtgtggat ggcgtcgtgc ttgtagtgtt aactggattt gaagcggact 420

acat 424

<210> 32546

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-F11

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ctgcagatcc aggatggccg tcctccttga gacettgcct ccccgagtgc tctcgggtgag 120

ctactttggt tcgatttatc aggaaatccg tttgcttcat gttgtgcagg ctcatatctg 180

attgctggat tcggcaaacc cgcgttggat cctgtatcgg ttagtccttg cctgcaaggc 240

tcttggtggt ttgttttggg ggtcgagcat cgcattgtct gcttctggat ccagatctgg 300

agaaatcgcg aagtcgtcgt cgttcgggtc ggagcggatc tgaggcgacg atagatggag 360

gcggcgggat ctctcggtct gcagtcctgc tccacctcga tggatgatgt ctctgcgctg 420

ataattattg gatca 435

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<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-F12

<400> 32547

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agggttatgc gggattcgaa ggggtgcagc agaggttctg gatttggtgc tctcaaattc 120
gctgaagatg ctaaccgagc tcttacggag atgaatggca aaatggttgg aagcaagccc 180
ctttatgtag ctcttgcgca gcgtaaagaa gacagaaagg caaaactaca agcacaattt 240
tcacaaatgc gtcctgttgc aatggcgcc tcaataagtc ctcgcatgcc catgtttcca 300
cctggtgtcc ctggaattgg tcagcaactt gtctatggtc aatcaccacc agcctttatc 360
aacccttatg cttgatttgc t 381

<210> 32548

<211> 170

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-F3

<400> 32548

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cagcggcagg tgtattgtgc gggatatgtaa tggatttgca actatattgg gtgtaaaacc 120
ataataaatg tgggcaaata tgcaaggaaa aatactggat ttctagcaag 170

<210> 32549

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-F4

<400> 32549

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actgcttctg gggtgatttg ggacagagtc cacttggttc aaaccattca gagcaatcaa 120
gcaagggaaa attgggctct ccattgccag catcctgggt ttctggcagg aagagtgtc 180
agaaagcgtc acccaaagtg ccattcaaac tgtcaaggag tcctattcat gataaccatg 240
ttatgtcatt tgatgcaacc gtgaagtctg tatcacaaga gcccaggccc gataaagggg 300

atctggatga agataattca catattaaca tcaagaatac tcctatcagc gagattgaag 360
aagataataa agatgctaaa g 381

<210> 32550
<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-F5

<400> 32550

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ccgggctcct tgataccttg cctcacgagt gctctcggtg agctactttg ttctgattta 120
tcaggaaatc cgtttgcttc atgttatgca cgctcagatc tgattgctgg attcggcatc 180
ttacgggctt gaatagagct aggactggga gaaaacaaca aaccgcggtt ggatcctgta 240
tcggttagtc catgccttca aggttcatgt atgtctgtat tggtggtcga gcatcgcatg 300
ttctgcttat ggttccagat ctggagaaat t 331

<210> 32551
<211> 393
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-041-Q1-K1-D2

<400> 32551

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tgtgtattga ttttttgatg gattggtaag ataattcatt tggctccggc ggctgctgct 120
ttctgctgta cacaagtcca gagtcttata ttgcgctgcc ttcagatgta catggaccaa 180
aaagaagtgg tcgatgccct ctccaccac tcgaagatag agccctgcat tactgaactt 240
gtttggcgac aacttgagca tcaaaatcct ctggttttca aggcgtatta tatgaggcta 300
atgcttaaga ctcanataat ggtcttcaac aagcttcttc aggatcagtt tgagggtatc 360
aataaagaat tttcttcagg gatcccttct atg 393

<210> 32552
<211> 317

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-041-Q1-K1-F7
 <400> 32552
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 ttatgtaatg cttgaggatg cttcaaattg gttttctagt gctggaactt accatttcaa 180
 gtctgaccct gtccaatgca cccgcaaagt gaggtcgacg tgcagctaga cttgacacac 240
 tttctgcttt tctagcttat ttgtgtgctt tggtttcttc tatttcaaga gaccgaagcc 300
 taaatcaact gaacacc 317

<210> 32553
 <211> 454
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-041-Q1-K1-F8
 <400> 32553
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 accgagtagt ggaaccgaag atgttcggga acatcggaac gatccccatc atcggcgacc 120
 tgacgggcag caacaagaat gcgcacctca agggcaacgt ggtgctcgtg cgcaagaccg 180
 tgctcggctt ggacgtcacc agcatcgccg gctccctcct cgacggcatc ggcgagttcc 240
 tcggccgcgg cgtcacctgc cagcttatca gctccaccgt cgtcgaccct aacaacggca 300
 accgcgggaa gttgggcgcg gaggcgagcc tggagcagtg gctgctgaac ccgccgtcgc 360
 ttctgtccag cgagaaccag ttccgcgtca ctttcgactg ggaagtggag aagcagggca 420
 tcccgggcgc catcatcgtc aagaacaacc acgc 454

<210> 32554
 <211> 379
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3068-041-Q1-K1-A9

<400> 32554

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ctcgtttcat tatccatggc tgaggagaag caccaccacc accacctgtt ccaccacaag 120

aaggacgagg agcaggccgc ggccggcggg tacggcgagt ccgccgagta cacggaggcc 180

acggtgacgg aggtcgtgtc cacgggcgag aacgagtacg acgagtacaa gaaggaggag 240

aagcagcaca agcacaagca gcacctcggc gaggccggcg ccatcgccgc cggcgccttc 300

gcactctacg agaagcacga ggccaagaag gacccggagc acgcgcaccg ncacaagatc 360

gaagaggaag tcgcggcgg 379

<210> 32555

<211> 160

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-B1

<400> 32555

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ctcaaagact cgggcatcca acatcctagg tcttacatac tgtaacgtaa aaccaaata 120

ctgttcagtg acctacaata taaaactgg taacaaccat 160

<210> 32556

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-B10

<400> 32556

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gcgggcttat cagtagcaac agtttatgat ccatcaaaat caaggaaaat atgcactgcc 120

ccgcagcttg tgagtgagaa tgaaccacaa aagtatcggg atgtaattta tgggtgactat 180

gtctcatctt ggtatagcaa aggtccagag ggcaagcgaa acatcgatgc cctcctgatt 240

cagcactaga gccataagta tgccttaaaa caaggttggg ccaactcattc tgttcctaaa 300

cttctaaagc atgtacaata tatcaagttt caactctaaa caatcatgat taggaaacca 360

acttgtatac tggatgcagt gcaataaagt accttttcat tgtcaaaaaa taaaaactat 420
 attt 424

<210> 32557
 <211> 350
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-B2

<400> 32557

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 agtcaaatgg gtttccccct gctctttgtg gtgtacgtgg cgcttcttgg tacctgtatc 180
 gggtagctgc tccgcatatg agttccaaac ttcaaaaaag ttcagcagat gggatattgt 240
 tcgtatgtgg gcaagacaat tgaacggcag atgcactcca aaatgttgag gggatgaatat 300
 attagcatta ttagttccga acttcatatg gttttgcaca taacagcagt 350

<210> 32558
 <211> 117
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-B3

<400> 32558

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<210> 32559
 <211> 64
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-B4

<400> 32559

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 acaa 64

<210> 32560
 <211> 168
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-041-Q1-K1-B5

 <400> 32560

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 aaaaaaaaaa aaaaaaaaaa aaagaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaacgaaa aacataaaaa aaaaaaaagg ctagaatgca ctagcatt 168

<210> 32561
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-041-Q1-K1-B8

 <400> 32561

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 agctgaagat ggactgttgt atccacttga aaagggtttc tttttcctgc caaagccacc 180
 tacactcatt cttcatgagg agattgagtt tgttgagttt gaacgtcatg gtgctggggg 240
 tgccagtata tcatctcact attttgacct ctttgtcaaa ctgaaaaatg accaagagca 300
 tctcttcaga aacattcaaa ggaatgaata ccacaacctc ttcaatttca tcaatggaaa 360
 gaacattaaa ataatgaacc ttggaagaga tgggtcaaggt gcaagtgggtg tagttacaga 420
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<210> 32562
 <211> 365
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-041-Q1-K1-C1

 <400> 32562

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tcggagatgg ctgcctcacc agctactgct atgaccggct ctectgcaac gggtcctgtg 120
 gcgccccgcc ggccacgcta gtcgaggtga gctgcacga ggacgccgcg aaggggagct 180
 cctacgacgt gagcctggtg gacgggtaca acctccccgt ggccgtctcc gccaagccag 240
 ccacgggcgg cgcggaactcg aacaagtgcg ccatcgccgg ctgcgccaag aacgtgaacg 300
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 tggcg 365

<210> 32563
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-C11

<400> 32563

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 gcaacaggtg cggaagggaa ggacattgtg caccatggtc accgtggaag tgctttgagc 180
 atgagaaggc aaagcctctt aggggagggg ggagatggtg tgagcagcac tgatatcggc 240
 gggggatggc agcttgcttg gaaatgggtca gagaaggaag gtgagaatgg tagaaaggaa 300
 agtggtggtt tcaaaagagt ctacttgac caagagggag ttcctggctc aagaaggggc 360
 tcaattgttt cactttccgg tgggtggcgat gttcttgagg gtagtgagtt tgtacatgct 420
 gctgcttt 428

<210> 32564
 <211> 337
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-C2

<400> 32564

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 cgtccagggg gacctgtttg ctgccttcaa gatctgatta tgctctcatg gtctgtattg 180

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agcttctggt catttgagct cgggggagtc cgctagtctt attttcttg atttctcttg 300
gcttctgga accatacgaa tcaataagaa atgagct 337

<210> 32565
<211> 387
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-041-Q1-K1-C3

<400> 32565

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ggtgaggagt ggtggttggc cgggtccatgg gatcctgaag aaggggatcc acggcctgga 120
atcactcaag ctcaggctgt agctggtggt tttcgtttgg cggngctctg gcgatcatgt 180
ttagagttca gtggcagtgt agtcatgctt attagtgggt agcttgtgtg tgagttgttt 240
gcgattcatc tctgtgtctg tgtgtgccga gttggttgggt ttgcaatttt tgtcatgtgt 300
gtaaagcctt gcacgccgag caatgctcga tgggtgtgaat gtatatacag aattactatt 360
tggttcaatt caagataaat agtactc 387

<210> 32566
<211> 352
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-041-Q1-K1-C4

<400> 32566

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tgtgaaagtg gttgatattg ttgacacatt ccgtctacag gagcaacctn cttttgacaa 180
gaaatcattt gtgtcttaca tcaaaaaata catcaagaat ctcactgctg tgttggagcc 240
agagaaagcg gatgagttca aaaaggggtgt cgaggggtgca accaagtttc tccttagcaa 300
gcttgaggac cttcaatttt tttgtggtga gtccatgaag gatgatgcgt ct 352

<210> 32567
 <211> 271
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-041-Q1-K1-C6

 <400> 32567

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 agagagcgga cgaagagcgt tttggtgtct acgtgtgtat acgctgccgg ctgtgggatac 180
 acgagggaga ggggtttcct actatatata tgtgtaaaaa tttgtttcat gtaatcttgt 240
 atctgagtga ccagatcagg tgattatgca g 271

<210> 32568
 <211> 149
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-041-Q1-K1-C7

 <400> 32568

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 taaaaattat tcaatctaac aaatacaaa 149

<210> 32569
 <211> 345
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-041-Q1-K1-A8

 <400> 32569

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 tgcaccctta caacaaatgt ttatacatca cgaagtcaag tgcacacctc tcaaatttgc 180
 tctataccac tgcacgacgc tcatctcggg acaggcaaca acgcatcatc tcccagcagc 240

acaaacagtg tcaacagaac ggaacagccc aactgctgtt cgccctcccg gcccttgccc 300
 ctgcccagtg atctgctgcc cccgagccag ccagtactga tccgg 345

<210> 32570
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-C8

<400> 32570

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 tcagccttct gatcgtcacc catggccact gccgaggtcc agaccccgac cgtcgtggcg 180
 accgaggaag cgccggtggt ggagaccccg gtcctcgccc cgcgtcgtgcc cgaggaggct 240
 gcccccgccg ccgaggccaa agtgaggag ccagctgccc cggcggagac cgagccagct 300
 gccgtcgtcg agcccgaggc ggcccccggt gcggctgatg aagagacgcc aaaggaagaa 360
 gagacggcaa aggaagcgga gccggagccg gaaccggcgg 400

<210> 32571
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-D10

<400> 32571

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 ccacccact aggaattat gagccagttg atgaggcatg aattatttca cgacttggcc 180
 gcggttagtg tgaaaaggcg acgctgctat atatggctat cacccttggt ttgtccggtc 240
 gccagatatc acgattatca ttttatcgg ttgtaata agcttcttgt attagcatat 300
 ggtttaatat tttttttcaa atgggatgaa gtctgcgtg atatcctatc tgtaaatagg 360
 aaggcactag cagatcttga ccaatgtaca actggttttt tttttgagaa acttgaata 420
 agaattattg gtcacc 436

<210> 32572
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-D12

<400> 32572

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 tggaggggcg atggcggcgg ctgatgtgga gtaccgttgc ttcgtcggcg ggcttgacctg 120
 ggccaccagc aacgagtcgc tggagaatgc ctctgcctcc tacggcgaga tcctcgactc 180
 caaggtcatc accgaccggg agacggggag gtctcggggc ttcgggttcg ttaccttctc 240
 ctccgagaac tccatgctcg acgtatcgga gaacatgaac ggcaaggagc tcgacggccg 300
 taacatcacc gttaaccagg cccagtcctg tggcgggtggc ggtggcggcg gtggctacgg 360
 cggcagtcgc agcggcagcg gctattgtgg cgggcgccgt gacggcggtt attgcggcgg 420
 tggc 424

<210> 32573
 <211> 318
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-H4

<400> 32573

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 aaatacaacc taaaattaaa aacccttcaa tataacttcc ttgctccatt cttaaattcc 180
 ctaacttcta tcaatttccc catTTTTATAC atcaaccttc tttaaaaaaa ctttctatt 240
 ccctaaccct ttacttttca taaaacttcc ctttccctt cttttttatc tttaataaaa 300
 ttcccccttt aacaaatt 318

<210> 32574
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-H6

<400> 32574

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cagcagaagc atggtcagag agcagctgcg cccggcggtga acgccgacca gaagaccttc 120
ctgcccgggt acgtcggcgg cgtcggaggg ttgcgtggcg ccggcgccgg cctcggggggc 180
atcggaggcg ttgcgggagg cattggcggt atgactggcg gtggtgtcgg cgggtgtcgtc 240
ggtggtggac tcggagggtt tggaccgctt ggtggtgctg gaagcggatc aggccttgggt 300
ggcgggtcag gtctcggcgg ccttggtggt ctccggcggtg gccggcgccct tggccttgggt 360
ggcgggtcag gatcgggtct gggccgcagc ggcgcccttg gcggtggcag tgggctcgggt 420

<210> 32575

<211> 350

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-039-Q1-K1-H7

<400> 32575

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tgctctagct ggagcctcta gccctagcta gtagctagcc actcggtcgt gtagtcatca 120
gccttctgat cgtcacccat ggccactgcc gaggtccaga ccccgaccgt cgtggcgacc 180
gaggaagcgc cgggtggtgga gaccccggt ccccgcccg tcgtgcccga ggaggctgcc 240
cccgcgccg aggccaaagg ggaggagcca gctgccccgg cggagaccga gccagctgcc 300
gncgctgagc ccgaggcggc ccccggtggc gccgaaggag aaacccccaa 350

<210> 32576

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-H8

<400> 32576

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cgtatatcaa ttccgatata tacaaatata tacagaaatg caagcataga ggataggctc 120
atggcttggc tcattgcttt ggaaatagac atggtacatg ccataatata taacaaggaa 180
caggagagcc aactgaatag ccagatgcat gtaaggatcc ataagagatc atagaagaga 240
tcctcttaat agcaagctta tctactagaa tttctagatt cattagatga tcgattacat 300
aagataatac gtactattct aagttctata caatagcctg aag 343

<210> 32577
<211> 198
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-H9

<400> 32577

aaaacacaat aaacctcaca taaaaacaaa tcaaacaaac aaacaaaaaa aagccaaaca 60
tgcaaacact aaaaaacaac ataattaaca ctctatttac accacctaac aatcatatca 120
ctaaacctca cccaacatca taactaacat acaaaaccca cctacttacc ctacttaaac 180
catacttaat tacatccc 198

<210> 32578
<211> 281
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-040-Q1-K1-A5

<400> 32578

cccacgcgctc cggcgaaaaa cttctttttt caaacaaaac ctcgataaaa gcggagacca 60
tctaacgaga ccggcaggcc ttcttaacag aacctcaaaa cccaacaaac ttccggaccta 120
acaatgtcat acaccccaaa ccccccgca acaccaacac ctgaagccaa aacgaagagc 180
cgaacccccac tagataccca cacaatacct aaaaccacgg taaacgtagc ggctacatca 240
ttacccaccg aagctccac tcaacctaca cccatcacia c 281

<210> 32579
<211> 193
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-040-Q1-K1-B1

<400> 32579

aaaaaaaaa aaggatttta atttttagga aattaaaaaa aaaaaaccaa aaagggaaaa 60
aagaaaaagg gccaaagccc cctaaaaaaa ttaatttttt aacccccccc cccaacaaca 120
aaacaactaa aaaaaaaaac aaaaaaccaa aaaaactaaa caaaaaaaaaa tacatacaaa 180
aaaccaacac acc 193

<210> 32580

<211> 206

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-040-Q1-K1-B12

<400> 32580

ccctatccgc cagtgtcatg cattcgtgct gaagctcaac tgctgatccg tttccaagc 60
tctggtatca tcctgagca ctgatttaag atgtatctcc agtactacat caacgagaag 120
ggggacaagg tctacaccac caagaaagag tcacctcttg gggtgccaac gcaatctgct 180
caccagctc ggttctcacc tgatga 206

<210> 32581

<211> 226

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-040-Q1-K1-C10

<400> 32581

aaaaatcacc gggactgttt cggaacccta gccctacccc taccgccatt catgcattct 60
ctgagctcaa ctctatctct tcaagctctg tatcatccct atcctgatta agattatctc 120
catactacat caacagaagg gggacaaggt ctacaccacc aaaagagtac ctcttgggtc 180
caacgcattc gctcaccac tcgttctacc tgatgacaag tactct 226

<210> 32582

<211> 272

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-040-Q1-K1-D4

<400> 32582

aaaataaaaa aaaaaaaaag aaaaataaaa aaaatataaa aaataataaa aaaaaataa 60
aaaataaaaa aataaaaaga aaataaataa aaaaaatatt aaataaatag aaaaaaata 120
taataaatat aaaaaataa aaataaaaat aaaaaaata taaatataaa aataaaaaaa 180
aaaaaaaaaa aaaaaataaa aataaaaaaa aataaaaaat aaaaaaaaaa aataaaaaat 240
aaaaataaat aaaaaaaaaa aaaaaaaaaa aa 272

<210> 32583

<211> 346

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-040-Q1-K1-F1

<400> 32583

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tttatcgtn taaattttac aatctgggga aatctataac agaggctcat actccttaac 120
catcataagc tcgatcatca acaaaatata actactttgt acaccatcat gactctataa 180
gtatacatga tataagatca atatatactt cttttatgat aacatatcat gttccttctc 240
tatttggtat cactgataat tctctcaatt catcaaacca tatatctcct ttatctatta 300
tcaaactatc cataaacaat tctgcaaatt ttcaacaat taatac 346

<210> 32584

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-040-Q1-K1-G5

<400> 32584

cgggtcgact ttttcgtcct cccactcgtc cggcgaccgt ctccgcgttt ctactcaccc 60
ttggccgtct acgaggatct gcaccacgtc aggatgacga ctctgatgaa cctcaagatc 120
atgacttcaa cgtgcaagag gatcgtgaag gagctgctct cgtacgataa ggatgtgtac 180
aaggacgctt tcaagaccga cgacatgaag gacaacggct ctgatcccta cgacctcaaa 240

catcacgaga atgttttgcc tgagtcaagg atgattgtcc cagactgtca caaacgactt 300
 gaaactgcac tttcttactc gaaagcaaca ctggcttaac tgaaggagtc aaatgatcaa 360
 ggtacctata ttgtacaaac tgatagtaca atcgcacaaag tttgaatcat t 411

<210> 32585
 <211> 277
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-040-Q1-K1-H2

<400> 32585

aaaaaaaaa aaaaaataa aaaaaaaaaa aaaaaaaaaa caaaaaaaaa aataaaaaaa 60
 ataaaaacaa aaaaaataa aaaaaaaaaa aaaaaaaaaa aaaaaaaata aaaaaaaaaa 120
 aaaaaaaaaa aatataaaca aaaaaataaa aaaataaaac aaaaaaaaaa aaacaataaa 180
 aaaaaaaaaa aataaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaacaa aataataata 240
 aaaaaaaaaa aaataaaaaca aaacaaaaaa aaacaaa 277

<210> 32586
 <211> 270
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-040-Q1-K1-H5

<400> 32586

aaaaaaaaac tagaaataaa caaaaaagac aaacaaaaaa aagaaaaagt ttaaaagcaa 60
 aaaaggcccg ccaaaaaaaaa aaacaaacaa taaaaacaaa caacaaaaaa aataaacctt 120
 ataaaaaaaa caacaaacaa aataatcaaa aacaaaaaca aaaacaccca aaacaaaaaa 180
 aaccaaaaat aaaacacaaa accccaaaaa aaaaacaaca acaaaaaaaaa aaacccaaaa 240
 aacccaaaaa aaaaaataac aaaacaaaaa 270

<210> 32587
 <211> 351
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-A1

<400> 32587

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ttgtgaaccc agtatggcaa acgcgccgag gatectggcc ctgggctgc tagcgctcct 120

gtgcgctgcc gccggcccgg ccgcccgcga gaactgcggc tgccagccta acttctgctg 180

cagcaagttc ggctactgcg gcacgaccga cgcctactgc ggcgacgggt gccagtcggg 240

cccgtgccgc tcgggcggcg gcggcgggcg aggcggaggc ggaggcggaa gcagtggcg 300

tgcaacgtg gctaacgtgg tcagcgacgc gttcttcaac ggcataaga a 351

<210> 32588

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-H2

<400> 32588

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atctggccct acttcagttt actaaattat gatctgccac ttcattgtcac tctgtcctg 180

tgtacattca tcaagaacaa gatgcagaag aacgaacctt aatctatcta tgtatgtaaa 240

gcctaaactc ccacccaaat taacaatgga tcgatcaatt ggagtccaag gcaatcaatg 300

gtaacagcaa cagttctata tataact 326

<210> 32589

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-A11

<400> 32589

atcgggcgga agggcgagct catcaagcgc cttgtcgagg ggaccaaggc cagagtcagg 60

atcctcgagg gccccgtcgg cgccaccgag cgtatcgttt tggtttctgg aaaagaagat 120

ccaggcttgg agctatctcc agccatggat gctctcatga gagtttttaa gcgtgtcatt 180

gggataacag atggagctgc ggagggcact caggctgctg ctactcctgg tgtatgtgct 240

gcccgattgt tggttcctgg agctcaggca attaacctaa ttgggaagca aggtgccact 300
atcaaagcaa tccaggagag cacgggtgct acaatacggg taatatcagt agatgaacat 360
gagagaccat tttatgtaac tgacgatgaa aggatagttg agatacaggg cgatacagag 420
aaagttctaa aagcactgca agcag 445

<210> 32590
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-A12

<400> 32590

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tcgaccagct ccagatccgc gacagcctga gaatgtacaa ttcgctggtg gagagggtgct 120
tcacggactg cgtggacacg ttccggcgca agaactgga caagcaagag gagtcttgcg 180
tccgccggtg cgcgggagaag ttctgaagc actccatgag ggtcggcatg aggttcgccg 240
agcttaacca gggcgtggcc acgccggact aagaaacatg ctgctgctgg ctgtggccgc 300
caggtttctg gctttgctgg cacagatttg tagccgacaa aaggatttca gcactttcgc 360
tgctgagat atatgcgtct taaagccgaa cgctgggtgt cagattgaat aaaaactgcc 420
ttgag 425

<210> 32591
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-A7

<400> 32591

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gcacagatgg cgctgtacat ggcgtacagc aggaacagga agcccgcggc ggcgctggtg 120
atactaccgg agcagtcctaa ggaggaggcg gccgagggca aggccagctg cggcggcgcc 180
gaggtgcacc ccatcgacat cgcggaggtc cacgacctgc aggccgtggt cgtcgacgta 240
gacgtggagc ctgtcaccta cgccgctgcg tccggtatgg tcgacggcag tgtcggcagg 300

cctagggcgc cggagcagct ggtgatcaag cccgacatgg tcaccgtcat tgcggcg 357

<210> 32592
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-E2

<400> 32592

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tccgggggttt cattggccag cggggggcgca cccgacacct ctcgatgtgc ggtgctcttc 120
cggccgctgg accctacctc cggtgaacc gattccaagg ttggctggcc cttaagcaga 180
aaagataact ctccccgagg cccccgcggc cgtctacgga cttcctaacg tcgccgtctg 240
ccgtcacgtc cctgctcggg aaatcttaac cccattccct ttcaggtgac gcgcgttatt 300
ccgctatct 309

<210> 32593
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-E7

<400> 32593

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tttcagcttc ggtctcgggt cttttgcttg ctctcacaga ttgagatgct ggaggagcac 120
atcttgccct cgttgaatgg gctctgttgt tgaaggactg atagtgttg taaaaaatg 180
ggattgtgca gtgagcgggt gattggcaag gggaaagatt gggatgggtcc agtaagtga 240
caggcgacag ggatgtggcc ttaagccccg ttgcccatgg gatggttgcc gggttgagct 300
gaggtggcat gatgacgatg ctggttcttg ctttgccatg tgcaatcgtg gcacca 356

<210> 32594
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-E8

<400> 32594

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cgcacgcgga gcatggaccc gcgaggtccg ctgaggcggc cccctgctac gaccggttcc 120

ccttgagca catcgacgat gcgtgcgagc tgcggtggtg atcgctgtag gaggcggcaa 180

accccgcggc gtcgactacg aagtagcgcg aggcggcgct gcgcacggca acgacggccg 240

cggagaagag cacgagcccc acgaccgacg cttggatcac cgccgaaagg tccagtccca 300

agccccgcgc cgccccgcgc ccaccgtctt cgggtgccgac cccagcatc taat 354

<210> 32595

<211> 250

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-F10

<400> 32595

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agaaaaaaaaa gggaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa acaataaaaaa 120

aaaaaaaaa ataggttgag tgacaagggg tccaaacatt caaccaacga ttttctaaga 180

tgtacaggac ggtatgaaga ttgctaaaag aagagatatt cgcccctgtg caaacgatcc 240

tcatggtaaa 250

<210> 32596

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-F11

<400> 32596

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agctgtactg aaatgctgcc acaagggtg gcgaacctac gtcacgtca gcctcgccga 120

ctctggccag gatatcgcca cagaccatt ccagctcgtg actgggcgtg tctggaaggg 180

aaccgctttc gatggcttca acagccggac ccaggtccca tggcttgttg acaagtacat 240

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cgacgccttc cacctgctgc acgaagggtgg ct

332

<210> 32597
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-F12

<400> 32597

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tgagaaggag ttgattggca aagctttgat gaagcgtgtt atgcaaactg ggctaccagc 180
cagcactgca cttcttgaga tgatgatatt ccaccttctt tccccggcaa aggctcaaaa 240
gtatcgtgtg gagaacttgt atgagggacc ccttgatgat gtttatgcaa ctgctatcag 300
aaactgtgat ccggagggcc ctcttatgct gtatgtttca aagatgattc cagcatctga 360
caagggcagg ttctttgcgc tttggctgtg tcttctcagg gaaggttgct actgggtatga 420
aagttcggat catgggtccc aactatg 447

<210> 32598
<211> 256
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-F2

<400> 32598

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ccttactttg ccaagctcgg tgacgccatg gtcacctgga tcgacgcctg tgatgagctg 180
aaccgggatg gacccgcggc tgggaaagac acggacaagt agatgggagt ccctgacgat 240
gcattcactt acctgc 256

<210> 32599
<211> 317
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-F4

<400> 32599

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actgggtcgt ctgggggggcc aacgaccgtt cagcatactt cgttagtag catcatcacc 120
acatccatgt tccacaacat actgagccac cgcagataca gcatttgccc atgcaccttt 180
tacacctacc acaccttaat cgaagccttc agcaagttac ccagctactg caccacctgc 240
gaccatccaa accgcctgca caagctcgac agcttcttct gccagacgta ccactaaacc 300
accgatcat ttaccac 317

<210> 32600

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-F6

<400> 32600

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atgttcaga gcatgctgag ccaccgcggc gacagcgggt gccagggcgc cttctacacc 180
tacgacgct tcatcgaggc cgccagcaag ttccccggct tcggcaccac cggcgacgag 240
cagacgcgca ggcgggagct cgccgccttc ttggccaga cgtcccacga aaccaccggt 300
ggatgggcca ctgctccgga tggaccgttt gcctggggat actgccgggt gaaggaacag 360
aaacagacgg acccacccta ctatggacga ggaccatac agctaactca taa 413

<210> 32601

<211> 263

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-F7

<400> 32601

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cgaaaaaaaa gagaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataa 120

aaaatataaa aaaaaaataa ttaacaaaag caaacatatg ataatatataa attctcattt 180
 taaacctata aatcataatt cgtggcagac aatatataac ctcaattact gttaaaacaa 240
 ataacgatca caaacttaat caa 263

<210> 32602
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-F8

<400> 32602

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 cctcttcggg cataacaata tgcaccgaat attcagctca tccgctctcc tataaaaacg 180
 aagcgcaaat ccaaaaaaaaa aaaaaccccg cccgcagcagc gcattgtccg ttccgtttgg 240
 acccatgata tatctcgctg ggatcttgac cgtgcgcgag acgaatctcc tcgtgcggta 300
 accgataccc cccaagtcaa aaatcagccc ataaaatttt tatgggcgga ggatcaccgg 360
 tcgccgcagt tcacgacgcg agcgacgacg gcgccagggc cgtggtgcta gtcgcgg 417

<210> 32603
 <211> 285
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-G10

<400> 32603

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 gacttattag ataaaccctc tcccacctag caatacctat ctcataccat caacgtctct 120
 taccccaact tctgtgctg aactcagatc aagtgggtgca tccacacctc cctctactgc 180
 agcaccgcac tccataacca gatcatattc cacttttagtt tcaccccaaa ccctccaaac 240
 aatcgcgctg agaactccat tatcccacaa tctctatata accat 285

<210> 32604
 <211> 357

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-039-Q1-K1-G12

 <400> 32604

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 cgctgcctgt ggttgatctt tggaataatc aacatgatcc tgggtgggcag tgccgggtgcg 120
 ggtcaaagct ctgtggggcca tctttaccga agcagcgagc ccgccaaacc aaccatggca 180
 ccagctgtaa gtgctcgacg tgctgagaaa ccatatgggtg ccaagactga cgcgggcaag 240
 cagcagctg ctggagggtac caaccaaagc aatagctacc acaaggctga tgggcagaac 300
 actggcaagt tgcatacaga ccgtcctgta tacaacgtgc acgctgggtgc tggcggt 357

<210> 32605
 <211> 257
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-039-Q1-K1-G2

 <400> 32605

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 cagaccact tccgcttcgt atcctttccc tctctgtcta aaccacaaca gcctcttcca 120
 gcataacaat attcacctaa tattcagctc atccgctctc ctataaaaac gaaacgcaaa 180
 tccaaaaaaa aaaaaacccc ttcttcacga cacattgtcc gtcacctttt gacccatgat 240
 atatctctct tggatct 257

<210> 32606
 <211> 245
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-039-Q1-K1-G6

 <400> 32606

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 gtcttcttgg gtgaccacgc ctccgcgcgt catcgcgtct ccagcatcat caccgcgcc 120
 atgttcata gcattctcat ccaccgccac aactgcggtt tccattgctc cttctacacc 180

taccacgcat tcatacaaga catcagcaac ttcccaaact tctttaccac cgtctactag 240
cacac 245

<210> 32607
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-G9

<400> 32607

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ctcctctact acaaagcatc tttgggcacc tttctaactt ttaacatat ttgccatccc 120
atccaaactc ctcatcttac aatttcttcc tcacatatca ttctgctat accctgcctt 180
ccaacctata ttatagactt atccccactt tcaacctact gactatgtta aataacgtca 240
aaaccacttc tatctcactt acacctctat tctcccactt atcctacaac tttctaacta 300
ttttacacaa tcttacta 318

<210> 32608
<211> 439
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-039-Q1-K1-E12

<400> 32608

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caacaagatg ttgcgctaca ttaggtatgg tggtgacggg ggagctaccc ttgtgacggg 120
tggtgatagg ttgggtgaca agggtttcta catccagcca acgattttct cagatgtcca 180
ggacggcatg aagattgctc aggaggagat atttgggctt gtgcagtcga tcctcaagtt 240
caaagacctc aatgagggtta tcaagagggc aaacgcgagc cagtatggat tggccgcccg 300
cgtgttcacc aacagcctgg acacggccaa caccctgacg cgcgcgctca gggccgggac 360
cgtctgggtg aactgcnttc gacgtcttcg atgctgcgat tccgtttggt ggggtacaaga 420
tgagcggcat cgggagggga 439

<210> 32609
 <211> 336
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-039-Q1-K1-H10

 <400> 32609

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 gccgtctccc ttttgctga gcagaggaaa gagggggaga agagcagtcg ccatgtctgt 120
 catcatccac aagatcgagg agaagctcca catggggggc gaccacaaga cggaggatga 180
 gcaccacaag aaggccgacg agcaccacaa gaaggaggag gtggagcacc acatgaagga 240
 cggcgtagag catatggaag gcatcgtgga gaagatcaag gacaagatca ccggcgagca 300
 cggcgacaag tccggcgacc acattgcaaa gaagga 336

<210> 32610
 <211> 264
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-039-Q1-K1-H11

 <400> 32610

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 gagattagca atcgccatgt ctggcatcat ccacaagatc gaggagaagc tccacatgcc 120
 gggcgaccac aagaaggaag atgagcacca caagaatgcc gacgatcacc acacgaaaga 180
 ggagggggag caccacacga aggaccgctc ctagcataaa gaatgcatca tagacaagat 240
 caaggacaag atcaccggcg agca 264

<210> 32611
 <211> 393
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-039-Q1-K1-H12

 <400> 32611

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ggtgaaggag aaatttgaaa agaattgttca agaggtagct gagaagttcc aaaacacaaa 120
 cttgtatttg aagaacttag aggagaacat tgatgatgag aaattgcgtg aactctttgc 180
 tgagtatggc aatattactt cctgcaaggt tatgcgggat tcgaatgggtg tcagcagagg 240
 ttctggattt gttgctttca aatctgctga agatgctaac cgagctctta cggagattaa 300
 tggcaaaatg gttggaagca agccccctta tgtaactctt gcgcatcgta aaaaaaacac 360
 gaaggcaaag cttctacgcc caatttttac aaa 393

<210> 32612

<211> 440

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-039-Q1-K1-B9

<400> 32612

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 tgggtggtctt ctggttgctg cttccattaa tcagaggcct gatctctttg gatgtgctct 120
 cgctcatggt ggcgtcatgg acatgctccg ttttcacaag tttacaattg gtcatgcatg 180
 gactacagac tatggttggt cagataagga agaagagttc cagtgggtca ttaaatattc 240
 tccccctcat aatgtacgga gaccttgga gcaaagctct ggtaataact gccagtatcc 300
 agcaaccatg ttgttgacag ctgatcatga cgatcgtgtt gtgccattgc attcactgaa 360
 gttattagcc naactttgcag catgtcctgt gtaccagcac tgaggacagt ccgcagacga 420
 atccaataat tggtcgcatt 440

<210> 32613

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-C1

<400> 32613

accactcgtc gcgtaatgtc taactggggg tttgtacaat cgttcggcga tccgcactgg 60
 gattgtttct ctgggtgggg gctgatggga agtaaatact gcaccgggtga catatctgaa 120
 gcccaaagct atgctgccga cattgattcc atcagggagg cgcatgcccg cattgcgccg 180

tacgttcaca ggacgcccgt tatgtcgtcg acgtccattg atgccatggt ggggaagaaa 240
 ctcttttttta agtgccagtg ctttcagaaa gcgggcgcat tcaagatccg aagtgccttcg 300
 aattcgatat tcgcact 317

<210> 32614
 <211> 375
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-039-Q1-K1-C10
 <400> 32614

tcccgttcga cgacgcgtcc ggggacgcgt cggccactca tcctcacagg atgctacatc 60
 ttttataaca cgcagacata gagctatagg gggttgtgca gcacgagata atgatgacta 120
 cccctagacg agctgcctaa ggtgctgaac gaacgaaact tacaacatgc taaccttctt 180
 ggtctaccta ataaccacca tgctgctaata ggcactaacg ctcatcatat aactctcgag 240
 tcaggattaa attgtgtatg ccacccacac tgggtacatcc agagcactta tgccacaaat 300
 cgccaatgcc tttacgaaag cctgcactgc ctatgcagca acattgcgag acacgcttac 360
 atatcacatg ccaac 375

<210> 32615
 <211> 452
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-039-Q1-K1-C12
 <400> 32615

tcccgttcga cgacgcgtc cgcgaaatga cttgaatatt gaaaaaacag ataaaccggc 60
 ctcgagttta actgcaacag gaatgggctc gagtatccaa gttgaaccct ctacggatga 120
 gttagatgag gccatacaac ctctgacga tgacatgggc atctcatcat ctgcgtgggt 180
 agaagtagag cgtcaagaac tagaagtcac tgtttcgagt gaaaatgtat ttgttgagga 240
 tgtaacttct ccaggaattg caccattgcc gtcacaaagc ccaagagtgc gtcattcggt 300
 gtcacaaatg ctgcaagcag atcgcaatga accagaaatt atcgagtggg gaaatgctga 360
 aaaccacccc gcaatagttt ttcataagga ttctgcacca atgattcaag aggcttctaa 420

agtctgctcg aaaaacaagg gagacaacaa tg

452

<210> 32616
<211> 131
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-C2

<400> 32616

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tgattgtaac taaataccga accactgaca tatcaaaatc ccaatactat gctgcctaca 120
ttaattccat c 131

<210> 32617
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-C3

<400> 32617

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tgtcagatcc atatagcaag gattaacaca ggggcccaag acaatagttg gacggaccag 120
tgggcaagtc tacctgggtca cagattacaa tatgggtcatg gctgacctta tgagctcaaa 180
actgtaaaaa catcaacagc accagtgttt ggtaaagttg gctccagctt cttgaccgag 240
tcacggattc tgccggcgat ctaatg 266

<210> 32618
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-C4

<400> 32618

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cttcctcccg gtgtcttaaa cattgtgaca ggattaggtc ctgatgctgg tgctcctttg 120
tcagcacacc cagatgttga caaggctgct ttactggga gttttgaaac tggtagaag 180

attatggcgg ctgcagctcc tatgggtaag cctgttacac tggaacttgg tggaaaaagt 240
 cctatagtag tatttgatga tgttgacatt gacaaagctg ttgagtggac tctgtttggg 300
 tgcttttggg ccaatgggtca gatttgcagc gcaacatctc gtcttct 347

<210> 32619
 <211> 196
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-039-Q1-K1-C6

<400> 32619

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 tcgtgcttcc ttccaaagtc ttaaacattg ttacacgatt aggtcctgat gctggtgctc 120
 ctttgtcagc acaccagat gttgacaaag tcgcttttac tgggaatttt gaaactggta 180
 agaacattat agctgc 196

<210> 32620
 <211> 244
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-C8

<400> 32620

tcgaagaaaa catacaaaaa aacataaaaa aacttaaaaa taaattaaac taaaaaaaaa 60
 aaagggaaaa aataagggaa cctgcctccg ttttaaagat tcctacctta ctatccctta 120
 cttccgccac tacagattta acacacggag acgttaataa agttacttgc cctccgattt 180
 ataacattac tactgtgaaa acccttgcta ctcctaattt aatctactat cagaaaatct 240
 ccct 244

<210> 32621
 <211> 284
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-D1

<400> 32621

cccacgcgtg cgcttttatg tactagggga tagccactg gtatctgggg agatgtcgag 60

cgtcctatca atgtcgtaag gattgtcaca ggattacgac ctaatgctgg tactcctcag 120

tcagcacacc cacatgatga cataggtcgc tggtactgat agctttgaaa ctggtaagaa 180

gattatggca gctgcagctc ctatgggtaa gccagatata ctggaacttg gtggaaaaag 240

ttctatatcc gtatttgatg atgttgacat tgacaaatct gttt 284

<210> 32622

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-D12

<400> 32622

gcgagcgaga tcagttaggc gtcgaagcag gaggagccgc agccacacgc catcagggac 60

cagctgcatt tggctcctg ctgcctcacc aaccgcccc atggctgctg gcgcaacgctc 120

tacgacacca taccctaggc ccagaggctc tacctcaacg gatgggtccgt gttccacacc 180

atccacctgg tgcgtgatgg ccaccaggac atggcactcg gcgacctgct caggaggaag 240

tcgcaggacg gcgtgcaggt gttgttgctc gtggggacga tcccacgtcc tggagcactt 300

tagcatcaag atggtaccag gcatatgggt caccgggtgg ctccaaatga aagggtacat 360

gggcacaagg gatgaagggtg actcagagat ttttttagcg ctcttcgggc ctaatacggc 420

tttggccacg atctgctagg aaaa 444

<210> 32623

<211> 160

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-D3

<400> 32623

cccacgcgtc cggggatttt cattctccta agcaaaatta gttcatttgc ttttgtgagg 60

ataggttggg aaaatgggtgt tttcaaacta gcccttagat aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aagaaaaaaa atataaaaga tacaagaaaa 160

<210> 32624
 <211> 315
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-039-Q1-K1-D4

 <400> 32624

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 agaaaagaga gagagtagcc acttgctagt agctggttca gtgccccggc aaattaatgg 120
 ccatctccct ggtaaaggta gtcgaatgtt cttgtaatct tgtcaattgg aagctacact 180
 gcactggatg catgcccacc agtcgaactg agcatgcat tttttccctc ggtcgcgccc 240
 gggtcatgta ttgtagtact cctcagtgtc tttttattta ttgctgaata gtgcaaaatt 300
 atgctatcca gcgac 315

<210> 32625
 <211> 301
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-039-Q1-K1-D5

 <400> 32625

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 acgttatgct ggcttttggg actccagaaa agcaaactctt gattgaacct atatttgccc 120
 aatggataca atctgctcat ggtaagacga catatgggtt cgatatactc ttatcttcaa 180
 cgaatggccc cgctttcaat gcatgtcgaa acatatgggtt gcccggatgg ttgaatgctg 240
 ttaatgagaa tagtaattcg cttttcttaa caataggacc tgggtatttc ttggttcatt 300
 a 301

<210> 32626
 <211> 350
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-039-Q1-K1-D6

 <400> 32626

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 tacgtgaatc ggtgaataaa aaagagaaaa agaaaagaaa agagagagag tagccacttg 120
 ctagtagctg gttcagtgcc ccggcaaatt aatggccatc tccctggtaa aggtagtcga 180
 atgttcttgt aatcttgtca attggaagct aactgcact ggatgcatgc ccaccagtcg 240
 aactgagcat gcgatttttt cctcgggtcg cgccgggtc atgtattgta gtactcctca 300
 gtgtctttnt atttattgct gaatagtgc naattatgct atccagcgac 350

<210> 32627
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-B4

<400> 32627

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 gattggttct ctgctggtgg tctgatggga agtaaagacg gcaccgggtga catatcggaa 120
 gccaaggct atgctgccga cattgattcc atcagggagg cgccaggcccg cattgcgccg 180
 tacgttcaca ggacgcccgt tatgtcgtcg acgtccatcg atgccatggt ggggaagaag 240
 ctcttcttca agtgcgagtg cttccagaaa gcgggcgcat tcaagatccg aggtgcttcg 300
 aattcgatat tcgcacttga cgatgagcaa gtatcaaagg gcgttgtgac acatagcagt 360
 ggggaccatg ccgcttctgt ggctttggct gcaaagcttc gtggcataacc tgcgcacatt 420

<210> 32628
 <211> 353
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-D7

<400> 32628

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 tacgtgaatc gctgaataaa aaagagaaaa agaaaagaaa agagagagag tagccacttg 120
 ctagtagctg gttcagtgcc ccggcaaatt aatggccatc tccctggtaa aggtagtcga 180
 atgttcttgt aatcttgtca attggaagct aactgcact ggatgcatgc ccaccagtcg 240

aactgagcat gcgattatTTT ccctcggtcg cgccccgggtc atgtattgta gtactcctca 300
gtgtctTTTTT atttattgct gaatagtgc aaattatgct atccagcgac aaa 353

<210> 32629
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-D8

<400> 32629

ccaacctaaa aacgtaaccc gatTTTTacc atgattttac acatccctaa attgtacgct 60
aatcgatga attaaaaacc acagaaagcc accaaaaaac acacaatata cacttcctat 120
tactccctc aacccccct caaactaaac cccatctccc tttcaaacc actcgaatgt 180
caatgtaaac ttatcaatag gaccctacac tccacttcac acatgccac cactccaact 240
taccatccaa accttctcct ca 262

<210> 32630
<211> 193
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-D9

<400> 32630

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aaaaaaaaa aaaaaaaaaa aaaaatgaaa aatataaaaa aaaaaaaaaat aaccaaaaat 120
aataaaataa aaactataaa aaaaaaaaaat aattatacta ttttatacta tccaatctta 180
ctttctcttt cat 193

<210> 32631
<211> 441
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-039-Q1-K1-E11

<400> 32631

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 ttgggcgtgg ttggccgcga cttcgcgctg gtggcggccg acacttccgc cgtgcagagt 180
 attctcgtcc acaagaccga cgaggacaag gtgatggtgc tcgactcgca aaagctgatg 240
 ggcgcttcag gggagcctgg tgatcgggtg caatttacgg agtttataca gaagaacctn 300
 cacctgtacc agttccggaa caccatcccg ctctcaaccg ccgccgccgc caacttcaca 360
 cgcggcgnaa ctcgccacag cccttcgcaa gaatccatat atggtcaata ttattcttgg 420
 tggttatgat aaggatgttg g 441

<210> 32632
 <211> 239
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-H6

<400> 32632

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 gacttgaccc tttgatcaac ccaaccttca ttctctctca ctccaacttc taaaccacct 180
 ataccaacac gtacaccaat aactctgac tcctcactact tactccactg ccaataaac 239

<210> 32633
 <211> 140
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-H7

<400> 32633

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 taagattggt gttacattaa aaaaaaggta ttaataataa aaaaaaaatt atacataaat 120
 ataaaaaat tttaatacat 140

<210> 32634
 <211> 274
 <212> DNA

<213> Zea mays
 <223> Clone ID: LIB3068-038-Q1-K1-H9
 <400> 32634
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 ggccatcctt ctgctggccg ccgtcttcgc ccgcgtccca gctgcgcttg ccgaccgcga 120
 cgacctgggtg gcccttacct aatccacgtt ccaaaaggag gtcagaaagg accgcggcgc 180
 cctcgtcgag ttctacgcc cctgggtgtgg tcaactgcaag aagcttgctc ctgagtatga 240
 aagacttggt gcaagtttta agaaagctaa atct 274

<210> 32635
 <211> 371
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-039-Q1-K1-A1
 <400> 32635

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 ggtctaggcc ttacgaccac accaaaatgg tactgccagt gccatcaaag aggaattggt 120
 agatgcagcc accaaagcag cagcagcagc agctcctcaa caagattcaa gccatgatgc 180
 accgcatggg cagtcttcga cagccaaggc ggacatggaa atcgatggtt gatttgtagg 240
 ttccagagtg gcaagaaagg gaatccccctc taatcattat gtatactgtg gtcagaatgt 300
 ccgctatata ttgtaacatc aaagaaagca ccttcaggcc tgatggtggt actgctaattg 360
 cgtttggtta c 371

<210> 32636
 <211> 365
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-039-Q1-K1-A10
 <400> 32636

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 ggttgaccat gctggatatg ctgggtggctg tgggtggccgc acagtagccg ctggtgcacc 120

tgcaaaatga gggacaacat agctgttgca cgtctcctgt gtcgttcggt ggccctcaga 180
 ttgttttgaa gttggcatag agatccatca attggtcgag tgcgggggta ccagaaaagg 240
 ctggatacaa atttttggag ttctgttca tcaactat tgcaggcaac aaaagctaaa 300
 aaagtgatta ctaattgagt aattgtagaa tagacaccta ttcagatgta gttttagttt 360
 tggtc 365

<210> 32637
 <211> 440
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-A11

<400> 32637

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 ggctaaagga ccctttgttc ctccagaaaa cctactaaga gcaaagcctg agattgggtg 120
 gaaaggttca gcagctacga gtgcatttcg tcctgctgaa ccaaggaaga ttttggagat 180
 tcctgctgct gcacgcgaca ttccagtatc tcatgctgct gggaagcagt ctcgtccac 240
 gcttggtttt gatttgaatg ttgcagatga ccaagctctc gaggaagata tcccacagag 300
 ttctgcacag actacctgtt ctgaatctgg aaatacgaga agtcgagatg gctcttcacg 360
 aagcgcttgg cattgaactt gatctgaaca gagctgatga agttgcagat aatggccaat 420
 ttgcaccaag tgcttcgcac 440

<210> 32638
 <211> 299
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-A2

<400> 32638

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 ggccaactca caaacaaggc ctatcaaaac ataataaccc aacccatgtt ccagaacatg 120
 ctgagccacc gacgccacag tccatgccag agcgccttct acacctacga ctcttaatc 180
 gaagccgccca gcaagttccc cggttttggc accaccggcg acgagcagac acgcaggcgc 240

cagctcgccg ccttcttcgg ccagacgtcc cacgaaacca ccggtagatg ggcgactgc 299

<210> 32639
<211> 209
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-A3

<400> 32639

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gagcaagaca cactctgaaa tgatttcacg acgaagcccg gcattctata attagcatcc 120
ttgaaaggat gatggctatc attatcgatg gaagattcct gatgtacgca atcgaccgaa 180
ctatattgga cagactatgt gcactgagg 209

<210> 32640
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-A4

<400> 32640

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gagtaaaaca gaatctgaaa agatttcacg aggaagcccg gcattcttta attagcacc 120
ctgaaaggaa gttggctctc attattgatg gtagatgcct aatgtacgca ctggacccaa 180
ctcttcgtgt tgatcttctt ggattgagtc taacttgcca ctctgatata tgctgccgag 240
tctctccgct gcataaggca cacgttaca gcttagttag gaagggtgct gagaaaataa 300
ctctcagcat tggtgacggt gctcatgatg tgagtatgac tc 342

<210> 32641
<211> 409
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-039-Q1-K1-A5

<400> 32641

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cgctcgaggcc ttacgaccac accaaaatgg tactgccagt gccatcaaag aggaattggt 120
agatgcagcc accaaagcag cagcagcagc agctcctcaa caagattcag gccatgatgc 180
accgcatggg cagtcttcga cagccaaggc ggacatggaa atcgatgggt gatttgtagg 240
ttccagagtg gcaagaaagg gaatccctc taatcattat gtatactgtg gtcagaatgt 300
ccgctatata ttgtaacatc aaagaaagca cttcaggcc tganggtgtt actgctaattg 360
cgtttggttt acttgtnctt gtaatatgca tacacattta gaactcatg 409

<210> 32642
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-A6

<400> 32642

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gggctgccgg cgccggcgcg cagcagggcg tgtggagcat catcaccggg cccatgttcc 120
agagcatgct gagccaccgc ggcgacagcg ggtgccaggg cgccttctac acctacgacg 180
ccttcacga cgccgtcagc aagttccccg gcttcggcac caccggcgac gagcagacgc 240
gcacgcggga gctcgccggc ttcttcggcc agacgttcca cgaaaccacc ggtggatggg 300
cgactgctac ggattggacc gt 322

<210> 32643
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-A7

<400> 32643

gccacacgat cctagattaa ccgatgggtcc tgctcatgac tagaaccaag ctgatcgtgg 60
gggctggatg cgcccacaaa cactaaggcg acctagacag catgacgatg accatgttcc 120
agaaactgct aaggcacctg aaccacatca taagcctaag caactatcta cacctacgac 180
gccataatgg acatcggaag gacactgacg acgatcagca ccaccatgga ctagcagacg 240
ctcaagcact agctttgcag ataatacgtg ctgacttaca agcaaacgct cagaggatgt 300

gcaactgata tgcgaagacc agctactaga gatactgacc aatgagagac acttgacaga 360
cagaaccaac ctact 375

<210> 32644
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-A8

<400> 32644

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taacaggatg cgcgcacaaa tccttaaaaa acgtagagag cttggtgatg tttgcctca 120
tgaaacctct aaagcagata aacctcatca taaggataag gaattatcag accgtaggtc 180
caatattgaa cataggaggg aactgagga cgatgatcag gagcatgagc tacaaaaagc 240
taaaaaacta tccttgaaga aaaaaggtgc tggctcagaa gcgagtgtg agaggatgtc 300
caaagcagat gctaatttgc agctactaaa tccagctgaa caagagagac atttgc 356

<210> 32645
<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-B1

<400> 32645

tcgcggacgc gtgcgctgaa gaccggcgtg accctgtgga aattgcacgt gggagtaaag 60
atggagtaaa acagactctg aaaagatttc acgaggaagc ccggcattct ttaattagca 120
cccctgaaag gaagttggct ctcatattg atggtagatt cctaattgtac gcactggacc 180
caactcttcg agatgaactt cttggattga ggctaaatcg ccactctgtt atatgctgac 240
gagtttctcc gatgtataat gcgcaggttt caagcttaat taggaagggt tgctgaaaaa 300
taactttcaa catcggtgac ggtgctaata a 331

<210> 32646
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-B10

<400> 32646

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gcaaggagct caagaacggc cgcctcgcca tgttctccat gttcggattc ttcgtccagg 120
ccatcttcac cggaagggc cggttcgaga acctcgttga ccacattgcc gaccccgta 180
acaccaacgc tggggcctac cccaccaact tcgtccgagg caagtgagga aggcgccgcc 240
ggagaccttt atgtgtgcat atgcatgtga gcgcactctg gttttcgggt tgcacatga 300
tgtacactat tgcacaatcc acaggaata attgtgcaca tgtgcaatat ttttcc 356

<210> 32647

<211> 441

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-039-Q1-K1-B11

<400> 32647

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atctccttgt cgataccgc atactttcag cagtatgaac ccagctccaa cctaattctg 120
cccagctatc ttcttccata tgctgcagcg tcaagtgggc cagttcgcac agccagcagc 180
gggctgaact atgcagtga cgcgctccta tccatcaacg ttgtgggtggc tctccttgtc 240
gcgttgatcc ttgacaacac agtgccaggc agcagacaag agcgcggtgt gtacatttgg 300
acagatccca aatccctcga agtggatcct gctacattgg aaccctaccg attgccggag 360
aaggttttcc tgctgggttca ggtgggcaaa gtgtgtcggc atctaaaagc tcttangagt 420
ggcgggtgaag attctattta t 441

<210> 32648

<211> 467

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-B12

<400> 32648

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tcttgatgt actcaacctt gcgtggcact ttgaaattac agctacaaat tttggagctc 120
tagggccatc cttgatttgc tacctgcggc ataatgcctt tcctcaaaga gatctgcatg 180
actattcagg tgatatcagc catgatcctt tggttgtcaa gttgccgaat attgcgcgtt 240
ggtatattgc aattgaaact gtcaacaaaa cacagactaa tgttacagca tcaacacctg 300
ttctagacac aacatgtatc tcattgaaat ggcaattaac tggatgcttg aatggaaaaa 360
ctggaaccaa ttgctcttgg gaagcatatg gtctccataa gggttcccaa gagatgcctt 420
ctgtcactta gagtctatca tgttgctact gatggaacag catcact 467

<210> 32649
<211> 425
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-038-Q1-K1-H5
<400> 32649

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catgggcaac ggcggtggcg ccaatgttgt cgccccgga tacaccaagg gggatggcct 120
tggcgctgag atcgttggca ccttcatact ggtctacacc gtcttctcgg ccaccgatgc 180
caagaggaac gccagggact ctcatgtccc catccttgct ccaactgcaa ttgggttcgc 240
ggtgttcctg gtccaccttg ccaccatccc catcaccggc accggcatca acccggttag 300
gagccttggc gccgccatca tctacaaccg ggatcatgcg tggagcgacc attggatctt 360
ctgggtcggc cccttcacgc gcgccgacct ggctgccatc taccaccagg tgatcatcag 420
ggcca 425

<210> 32650
<211> 194
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-039-Q1-K1-B2
<400> 32650

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gcagcaaaac aaggggtctgc gatgattaga agccgaactt acgtactctt taatgcgccc 120
ccatagctgg aatatggcgt cacactattg aaggtaaatt gctaattgtac gcacaacgac 180
cgaactgtgg aaaa 194

<210> 32651
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-F5

<400> 32651

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tgggcacccg cctggcggac ccggcgccac agaacgggcg catcgtggcc cggttcgggt 120
tcgggttggg cggcaaggcg aagcctgtct cgaagaaggt ggcaagaca tcgacctcct 180
ctgaccggcc gctgtggttc ccggcgccg tggcgccga ctacctggac ggctcgctgg 240
tcggcgacta cgggttcgac ccgttcggtc tcgggaagcc cgtggagtac ctgcagttcg 300
agttggactc gctggaccag aacctggcca agaattaggc cggcggcac atcggcaccc 360
ggttcgagtc ctccgaagtc aagtccaccc cggttcgagc ctacagcgag gtgttc 416

<210> 32652
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-F7

<400> 32652

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agggaaacac caaactgtcg ggcggcggcg ccacataacg accgcatcgt ggcccgggtc 120
gggttcggat tgggcggcaa ggcgaagcct gtttcgaaga aggtggacaa cacatcgacc 180
ttctatgacc gtccgatgcg gttccccgtc gccgtgttgc ccgactacct gtacggctcg 240
ctcgtcggag actacaagtt cgaccggttc ggtcttagga agcccgtgga gtacctgaag 300
ttcgagttga actctctgta acagaacctt tccaagaatg at 342

<210> 32653

<211> 387
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-038-Q1-K1-F8

 <400> 32653

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 ctgccggtgg ggctgctgca accgcgggta ccatggcggc tgccggtgct gctcgcaccc 120
 tgatcagata ccagagccca tgtaccgtcc tgagctcgtc gaggtccaca actaaatagt 180
 aatgagatgc gctgctacta tatatacggg tacgtatgcc cgatgggaag cagagcacac 240
 gcgtagtacg ctgcgcgtag tagtcaataa aagtttggtt ccatcaccac gtcataaat 300
 aaaagtaagg aggttgcaag ctttgtgtgc gtgcttgaa acgtcgactg tatctcatgc 360
 atcgaataaa ttaaatagat tttgtcc 387

<210> 32654
 <211> 436
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-038-Q1-K1-G1

 <400> 32654

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 aaagaggaca agaatagtac cagcagcagc aagcttacac aatccaagca cccaacacag 120
 agatatcatc gtcgtctccc cagtacgtcc cgaccggca cctggttcaa ccgggttttg 180
 gactttggag aggtcgactt tgacgaaaca aatttgccag gaaaccgtaa cagacgcgtc 240
 atcacatcag caagcagtag gtggaggaag gtaacgcttc aggagatgga tgtgggtgct 300
 acgagccgcc tttccctct tctgtctctc ctgctgctgc tgctggcggc gtggcggcgc 360
 cggcgtctcc tcctctgccg tagccgagct ccgagatctc ccagctcgtc gctggggcta 420
 cctcctggtg caccgc 436

<210> 32655
 <211> 381
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-G10

<400> 32655

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gggttctgta ccgtaatctt atctgtctct gttgctcaat tctattgtgc acacaaacac 120
tttgctctat tctcttctgc acacacacac acacacctca tagagcgacc agatcaaadc 180
aaactataat aacagtagtt ctagtcttgc cattctacat agaaccagct tgctcagacc 240
tctcggcgca cacaggcaac cgcaccgacg ctgtcgccgc ctcttcctct gcaaagcttg 300
aggccttgct gattaagcca cgcatattga acatcgactg gcccgcgta aagtcgacga 360
tcgccgatgc gagaagtttc t 381

<210> 32656

<211> 210

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-G11

<400> 32656

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cgcggcgtcg tccgccagcc caccatggcc gcgcagtcct tcttcctcgc cgacactgac 120
gccgtcaggt cccccgcggt cttcgccgat acctattcct ccgcacgccc ttgcaactcg 180
gtccacttcg tcgccggccc gtggggcgcc 210

<210> 32657

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-G2

<400> 32657

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tgagctcatg ggttaccaag tcgtgcctt ttctcgtggc tccggcagtg gcctcgcca 120
ctgccgccct ccagctcacc tccatggaca gagctctggt ttccctgccc gtgtcagcga 180
tgttcgtcta cgagaacccc atcgatcgtc cggccgagac cattagaaga gctctgtccc 240

gtgcgcttgt tccctactac ccaatggccg gccgcctcgc cgtcactggg gaccagctga 300
agctcgcgtg caccggcgaa ggcgtagcgt tcgtcgggtgc gtcggcgagc tgcaccct 358

<210> 32658
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-G3

<400> 32658

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cgaagacacc cgccaagccc aaggccaagc cagctgccaa ggccaagccc aagaccgccg 120
gcgctaagcc gaagccactt gctaagaagg ccggccgccc cgccaaggcg gcgaagacgt 180
cggccaagga cacgccaggg aagaaggccc ctgccaaaga ggccgctccc tcgaagaagg 240
cggcgacccc ggtgcggaaa ggcgcgtccc gtaaggccaa gaagtaaagc ggccaagaag 300
gggggcgcg taagtgtaat ttgatatcgg agaggctcgg gtacactggt cattcagtat 360
ccgagaccga tagctgaggg tagtggcgat ggaggactgt gttattacta ctataaactg 420
gtggttgtgt ttct 434

<210> 32659
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-G4

<400> 32659

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ggcggccaag gcgctcctcg tggtagcgt cctgctcgcc gccaccttcc tcgacggctc 120
cgctaacgag caagcccagg cggccaaaga ggagaagaag gcggagggtcc aagactggca 180
cggcggcggc ggctacccgg ggcacggcgg cggcggcagc ggaggctacc cggggcacgg 240
cggcagcggc ggcggcgggt acccgactg ccggtggagc tgctgcaacc gcgggtagca 300
tggccgctgc cgggtgctgt cgaccctga tcagatacca gaacctatgt accgacctga 360
gctcgtcgag ggccacaact aaatagtaat gagatgcgct gctactatat atacgggtac 420

ctatgccc

428

<210> 32660
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-G5

<400> 32660

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ggtgggcatc cgcgcgagc gtgaccagac ggtgtagaga ctagatagat cggaaggggg 120
tctaggcata gagagcgagg aggatgaccg gcgttgctgc aggcgccgga gggggcaaca 180
aggcggcggg cgccacgctg cggetgcacc actaccttgt gatggccggg gtggcggcgg 240
cggtcgtact cgctgcctc cggtacgcgc cggacccgc ggggtacggc ttcctggccg 300
tggcgccgcg gacagtggag gccgttgctg gtgcccgcg ggacaccact cctccaccgc 360
gcccgtcgtc gtcgtcgtcg gtggtcact tcaacttcgg tgactccaac tccgacacgg 420
gcggcatggc g 431

<210> 32661
<211> 279
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-G7

<400> 32661

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gagcccttat acgcgcagag ctacaccata tatcatacat actatatata tccaacatgc 120
ctttacacat acatatctat aataataacc cccattcctt aacacgccta atccactaac 180
aacacatcct cctccacact actgcttcac cactaactag ttatctccaa aaaggcctct 240
ccactaatac tcacatatcc ttgttacacg ccacacccc 279

<210> 32662
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-G8

<400> 32662

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ccaccacggc aggatgacga cgctgaggaa cctcaagatc aagacgtcga cgtgcaagag 120
gatcgtgaag gagctgcgct cgtacgagaa ggaggtggag aaggaggcgg ccaagaccgc 180
cgacatgaag gagaagggcg ctgatcccta cgacctcaaa cagcaggaga atgttttggc 240
tgagtcaagg atgatggtcc cagactgcc aacacgactt gaaactgcac tggctgactt 300
gaaagcaaca ctggctgaac tgaaggagtc aaatgagcaa ggtgccgaga ttggagaagc 360
tgagagtaca atcgcagaag ttgaagcagt tgtcaagcca gcagaagatt aaactaaaaa 420
aactcttggt ttgctgaac 439

<210> 32663

<211> 298

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-038-Q1-K1-G9

<400> 32663

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acgcantcga ccacggggcca cacaatccca aatctaacc tccgacggcg atggggatct 120
cgagcatgcc ggagccgcgg gacagcctgc tggggtacct ggtgtacaac acggtgatct 180
cgatcgcggc gctggcgggg ctggtgcggg cggcgctggt gttcctggac ctgcaggccg 240
cgctgccgcc cggggacgac ggcggagacc gactggcggc gtcgggcccg ggactggc 298

<210> 32664

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-H1

<400> 32664

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atgcagcgaa caccaattca ccagttcagc gagcattgtg gctactcttg gatctggaga 120

atctcatgcc tctttatata ttatggatct ttctgaagct gttgacttgg caatcggacc 180
atggactacc tacagagttc attcacttga tcgaacaatg tggacagctg attgtagttc 240
tgatggcaca catgcagctt tcggttcgga ccttggtgct ggtctgatcg atttggaac 300
aaggggatca tcgtgggtat gtcgttctaa aagcgacatt ctttccctga aatttggtgca 360
ctcgggaaaa gttgtgctat gtgggctacg gaatgggagt atagcccctg gtgatgtacg 420
gcaaaaacag ca 432

<210> 32665
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-H10

<400> 32665

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acttggtatt ggagacaagc aggattcacc agcagctgtc acggaggaag aattggctag 120
acatctgcat cttaaggagt tagacgagag gccatgcatg ttccaggctg gatctgcctt 180
caatgggacg gggatcaaac atggcggttga ctggttggtg gaaaaaatgg agaggaagta 240
acgcaccgag gcactaaagg cgcgtacaga agcagctggg aagatttaac acctcaattc 300
agggtatca cctgtgattt tccaaatgca aagcatctg 339

<210> 32666
<211> 304
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-038-Q1-K1-H4

<400> 32666

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gatgggtang cagcctccac accttttttag ctgactgatc ggagagttac tcctaggcaa 120
ctcttgtttc tagatttgca aatgggtgtct gaaactctgc gtttgctgcy gcagaacgtg 180
tacttaattg ttcgtgatag gtctgaataa cacatggatg gtatcagtct gtagcttatt 240

ttttttactt gatccgtttc ttctgtgggt tgtgatttgt gaatgaccaa aagatggatg 300
ctgt 304

<210> 32667
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-F4

<400> 32667

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ggagagctat tccagggctc catactcctg aaccatcaga agctggatca tcaacaaaag 120
agaactactt tggagaccat catgacgcta gaagtataca tgatggagga tcaagagata 180
cttcttttag gagaacaaat catgggcctt ctgtatttgt tatcagtggg agttctctca 240
gttcagcaaa gcagatgtct cctttatcta ttaacaaagt agccataaac aatgctgcaa 300
atttgcaaca aatgaagact ggtgattggc gtgttgaggt gtcagttcca aagcagagta 360
tgatactgct gggtgataat gacgagaagg ggtccattaa agtctgcagc ctaaaagata 420
caaagagaaa tgcataatg 438

<210> 32668
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-D5

<400> 32668

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ctgtccgccg accccgagac attcgccaag aaccgcgagc tggaggtgat cactccccgc 120
tgggccatgc tcggcgcgct cggctgcgtc ttccccgagc tgctctcccc caacggcgctc 180
aagttcggcg aggccgtctg gttcaaggcc ggctcccaga tcttcagcga gggcgggctg 240
gactacctcg gcaaccccag cctgatccac gcgcagagca tcctcgccat ctgggcctgc 300
caggtcgtgc tcatgggtgc cgtcgagggc taccgcattg ccggcggggc gctcggcgag 360
gtcgtcgacc cgctgtaccc tggcggcagc ttcgaccccc tcggcctggc cgacgacccc 420

gaggcctt

428

<210> 32669
<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-D6

<400> 32669

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ctactacttc tattacaccg ccagtctatc ttccaacccc gagacattca ccaataacct 120
ctatctttta attatccact cccacttaac catactctac tctctctcct gcattctccc 180
ctatcttctc tcccgcaact tcttctatct ctactaaacc ttctatttca atgccttctc 240
ccatattctc atccatacct tatctaacta cctctacaac cccatcctta tc 292

<210> 32670
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-D7

<400> 32670

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gagatagatc acacgctact gccagcggcg caggtggtgc tcaacatggc gagggcaaatt 120
gagatcattt acctccacgg cagggacgcc tacaccttcg gtgctgacct caaggacctt 180
gtcaccacac tcttctcaa gcaagtgtc cctctctaga caatactctg atcacacaac 240
tagattggct ataacgattc tcgtgttgta ttacgctttg tgtttcatta tgcacgctat 300
atatatgac aatgtacctg tttctatcat attgatggta atataatatt ctaaattggat 360
atagtt 366

<210> 32671
<211> 438
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-038-Q1-K1-E10

<400> 32671

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cgttccatgt cgctgaagtt ttcacaggtg ctccaggga gtatgtggag ctgaaggaaa 120

gtgtgaagag tttccagggt gttttggatg gcaagtatga tgacctccct gagcagtcac 180

tctacatggt tggaggcatt gaggaagtca ttgctaaggc cgagaaaatc gccaaaggagt 240

ctgcttcata aggcggcttc ttgcttggtg aatcctgtac aatcaagttc catttttggg 300

tttaagcgat tgtttatgct tttcgcagtt aggcagcacg agttggagggt ccatctnctg 360

ctgaaatgct ttgttttctc tttgttggtc aaacacttta cacccaaata agcaactgca 420

gtgacattaa ttttggct 438

<210> 32672

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-E12

<400> 32672

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ccaggggtca ccgctgttcc tagggcgaaa gatgacgact gcctcattct tgcaagtgat 120

gggctgtggg atgtagtgtc gaatgaagag gcatgcaaag ctgcgcgtcg gcagatccag 180

ctgtggcaca agatcaacgg tgtcacatca tcattgtgtg acgagggtga tgaatccaat 240

gatcctgctg ctcaagctgc tgctgattat cttatgaggc tcgcactgaa gaaggggtacc 300

gaggacaata tcaactgtcat tgtgggtgac ttgaaacctc gaaagaaggc caagagcaac 360

tcatatcact gggatggatc catcacggtg gagctgacca tgatatgtcc aaaggcttct 420

gctgggtacgt tgtgggtcgtc cgcaagagac ttgacccac a 461

<210> 32673

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-E5

<400> 32673

aaaaaaaaaa aaataaaaaa aaaaaaaaaat aaaaaaaaaa aaataaaaaa aaaacaaaaa 60
 gagaaaaaat aaaaagtaaa taaaacaaaa aataacaaaa aaactgggtc tcccctttaa 120
 aggtctcaga tttacttccc cttacttcct acgcattctc ttttttttat tgccacataa 180
 atctatttac ctggcccttt tttaacacct tctcatttgg aaaaaccctg gttttaccca 240
 attatattgc ttttaaaact attccttttt ctcctattac cctaatactg aaaaaccctt 300
 tcccgatcga tattcccaac attttgcccc cctaaatgcc taatgtgacg ccccttttca 360
 cctcatatta atcccatgga tccttcactt tacacctaac cttaccattt cctttgcctt 420
 ctccttatac 430

<210> 32674
 <211> 434
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-038-Q1-K1-E6
 <400> 32674

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 gtctttcttca gcaaggagca gggccctcgc caaattaggc acagcacctt caagcacaca 120
 caagttccga tgctttcaca aagtccaagc accaaggata actagggaat ggaatccact 180
 ttggaccoga tcatggactt ggaaactttc tctatgccac caagcatcta ggctatcatc 240
 agtctgagca cattagccta gcaccactt gtgttgaaat ctttctctat aaccaagtt 300
 atgatgtatt gaaacctttt ttcttatagg tatgagtac caagaggtag cagattatat 360
 gaaaagtttg gcaattcggg tttctgggtt tgatgtgcca aggccaataa aaaactttga 420
 ggattgtggg tttc 434

<210> 32675
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-038-Q1-K1-E7
 <400> 32675

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gcatggggca gccgccgacg gactcgccgc ttctcgactc ctccgagcag gtctacatct 120
 cctccctcgc gcttctcaag atgctcaagc acgggagggc cggcgtgccc atggaggtca 180
 tgggtctcat gctcggcgag ttcgtcgatg actacaccgt cagggtcgtc gacgtcttcg 240
 ccatgccgca gagcgggact ggggtcagcg tcgaggccgt cgaccacgtc ttccagacaa 300
 acatgcttga catgctcaag cagaccggca ggccagaaat ggttgtaggc tggatatcact 360
 cacatcctgg cttcggttgc tggctatcag gcgttgatat caatactcag cagagttttg 420
 aagctttg 428

<210> 32676
 <211> 362
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-038-Q1-K1-E9

<400> 32676

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 gcaccccgca cgagaccgt cgtggagggg cacgtgctag atgcggggcg cctgcctctc 120
 gccgccgata cgggtgcctct cgcggtctcg ctccccctcg cagacatgca gagccagata 180
 gtgtgccacg ggtgcaggac ctttctgttc taccgaagag gtgctccgag cgtgtgttgt 240
 gcggtatgcc atgtggtcac caatgtgccg ncttcagcaa tggagatggc tcgacttata 300
 tgtggtggct gccagacatt attgatgtat gctcgcagtg caacaactgt aagatgtca 360
 tg 362

<210> 32677
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-F1

<400> 32677

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 cgagatagtg gacataggat gccactcttt aaaatgaaaa aaaggagtaa tcagctgtga 120

cacgaaaaaa aacgaatcct tttgtagctc gtcattttatt ggcaaaaatc gaaaagggtca 180
 atatgaagga ggagaaagaa ataatagtaa cgtgggtcccg ggcatctagc attctacccg 240
 caatgggttg ccatacaatc gcgattcata atggaaaaga acatatacct atttacataa 300
 caaatcctat ggtaggtcgc aaattggggg aattcgtgcc tactcggcat ttcacgagtt 360
 atgaaagtac aagaaaggat actaaatctc gtcgttaatt gaattcagaa tagaaagatt 420
 cagaataaac aaaa 434

<210> 32678
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-F10

<400> 32678
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 cgccgagtac accgagaagc atatggcgtc gctgagcgcc gactacgggc tggatttggg 120
 caccgtcaga ggaaccgtca acaacgcctg ccggattatc gaggtaccgt gacccgtacg 180
 tgagcttcac ccagtcgtt gaaagatact agtagcagca gcagtagtag ttccagtacc 240
 atcctgcaac ggaaagacga agggaggcgg tcaatgaatg gagaagaaga atatataataa 300
 taataaatca tctgatggcg ttgttcgttc tccgtgtttc aagtgcggag ggacttgggc 360
 tcgctggaca ggtacgtgtg ggcgttcgtg aacaacatgc cgctgtcgcc gagctacaag 420
 taca 424

<210> 32679
 <211> 314
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-F11

<400> 32679
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 gggttcctgt ttcagtcgat cgcagtttagc atggccgcga cacagagctg tcaggctgct 120
 gcttgcttac cggccgccgt ggcggtcgac gaggagcacg gtcaccacag ccaccagctg 180

aagggaggag cgcattgagga ggctgagaac gacaataagc cggagctccg gcgtggcccc 240
 tggaccgtag acgaggacct caccctcgtc aactacatcg ccgacaacgg cgaggggtcgc 300
 tggaacaaac ctgc 314

<210> 32680
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-F12

<400> 32680

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 cgggtgttggt ggtgagccga tccagacggc gacgtccaat gtcgagtacc gctgcttctg 180
 aagcgacctg cgctggacca cggtcgaaca ctcaatacac aacaccttca gcacctaccg 240
 tgaagcgctc acgtggacga taatcctgga tacgtacaga cgcagacaga cccgaggggt 300
 cggttgaact aaccttgtcc acgcaggagg gctaacgcag acggcctcga tgtcatcaac 360
 tgcaatggat caagtacgtc gcagcatgac cgacaacgag gccattccc gccgacgacc 420
 a 421

<210> 32681
 <211> 302
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-F2

<400> 32681

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 cacatctaca tcaaaaaaat gcaccttaat tacgacaata taacaactgt aacttgatcc 180
 cgttccatat aacattacac ctcaaccatt aatgcataac cataacattc attataacaa 240
 agatcatcaa cctatttcct ttacaaatcc tacagtacat cacctcataa gaccaatccc 300
 ta 302

<210> 32682
<211> 317
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-F3

<400> 32682

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agtttacaca taagaggcca ctctttaaca tgaaaaaag gaataatcag ctctgacaca 120
aaataaaacg aacccttttg taactcctca ttcattagca aaaactcaaa aaagtcaata 180
tcaatgacga gaaataaata attgcaacgt cgtccctagc atctaacatt ctacccccaa 240
tggttgctca tacaatctcg attcataatg gaaaagaaca tatacctatt tacattacca 300
atcctatggg atatctc 317

<210> 32683
<211> 437
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-038-Q1-K1-D4

<400> 32683

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gatgaggatc catggagaag tgcangtcgg tgccgcacga gcactcgtcg gcgtactacg 120
gctgcgaggc cgggtacgac tacgaggacg tcggcggcgg gcccgggcag gccggcaagt 180
cgtacagctt caacggggccg agcgggccggg acgaccgcga ggcgaagcgg cggcgccgcg 240
tggcggcgta caacgtgttc gccacgcagg gccggatcaa gaccaccgtc cgcagcagcg 300
tcaagtggct caagtccaag ttctccgacg tccgctacgg tggcctctga actgatctga 360
tgagcctact gcatgcaacc catcctactn ctacgaccgc acacatatat gtgtatgcac 420
gaaccatgat gtcata 437

<210> 32684
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-B7

<400> 32684

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ggaccaatc tcgtccgacc cggcgcgtcg tcccctccag atctccgtcg ccctctccag 120
gtagcagaaa ctgttctgct tcagtctgac aaagtggagg gcttaggagt ttctgcttct 180
tttatgtctg aacaatcttt gctttatttg ggattgttgg gagagtactc tcgtgcaacg 240
aggaaaaggc acaaggttcc gttccactgc atgcgtcaag agcctgtctg gttttcttgt 300
tctgatttgt catttgctgg tgctcaaagc cggcttggtt tcctcgaagg atcagcatct 360
actcttgatt gtggactttg tcgcatctga tatcaacttc ataaatcttt atccaagatg 420
gcgctgca 428

<210> 32685

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-B8

<400> 32685

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actagataac aacaagcgtg aaccatggcg gacgagtacg gccgcagcgg ctacggcagg 120
tccggcgcgg gcgacgacta cgacagcggc tacaacagca agtccggcac tgatgactac 180
ggcgtggcg aaggtggcta caacaagtcg ggcggggatg acgactacgg ccgcagcggc 240
ggcgatgggt acggcaggtc cggcggcgac gactacggcc gtggcaccgg cggcgggtggc 300
tacaacaagt ccggcggcgg agacgactac ggccgcagcg gcggcgacga ctacggccgt 360
ggcaccggcg gcggcgggta caacaagtcc ggagacgacg gctacgacag cgggtacaac 420
agatcgggca ccacc 435

<210> 32686

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-B9

<400> 32686

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ggcctcctgc tagctcccggt cggaacgcct cccagatccc agacgcagcg cgctacccca 180

cgcgagcgaa ggccggcgcg cgacatggga gggtgccacg cgaagccgct cacgcaggac 240

gcggaaggct cgccgccgca cgcgggcgcg gcgacccgc ccccgggcaa cgctaccccc 300

ggccccggga agaagcaactg ggcggtgtcc ccgttcttcg cgctctccac gccgagcccg 360

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ccgggc 426

<210> 32687

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-C1

<400> 32687

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gctccgactt ccccatccag aacctgccct tcgggggtctt ccgccggcgg ggggtgcagg 120

cgcaggcgcc gcgccccgcg gtggccatcg gggacttcgc gctcgacctc gccgctgtcg 180

ccgacgcggg gctcttcgac gggccccgcg tctccggctc cccgtgcttc caccaggaga 240

cgctcaacat gttcctgggg atgggccggc cggcggtggag ggaggcgcg gtcacgctac 300

agaaaatcct atcagccgac gagcccgtct tgcgtgacaa cgaagcgctg aggaacaagt 360

gtctggtacc aatgagtgat atagagatgg ttctaccaat cacggttgga ggttacacgg 420

acttctt 427

<210> 32688

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-C10

<400> 32688

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 gcgacgcccgc cgccgacccc cgcgcgggtg tctccgcccc tgccgtcccc gaccatgcct 240
 cctccggcgc ccgcgcccgt ccccaaggcc ccggccccgg cgcccgaggc cccaccccg 300
 gcacccacgg tcg 313

<210> 32691
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-C6

<400> 32691

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 tgtaccgcgg tgatgttggt cctaaggatg tcaacgctgc agttgcaacc atcaagacca 180
 agagaactgt ccagtttgtg gactggtgcc cactggatt caagtgtggc atcaactatc 240
 agccaccctc tgttgtccct ggaggtgacc tggcaaaggt ccagcgtgcc gtgtgcatga 300
 tcagcaacaa caccgccgtt gccgaggtgt tctcacgcat cgaccacaag tttgacctta 360
 tgtacgcaa gcgcgcattc gttcactggt atgtcgggtga gggatatgaa gagggtgagt 420
 tctcagaagc ccg 433

<210> 32692
 <211> 235
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-C7

<400> 32692

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 agttacacct actgtccatc gatttacacc tcgttttact gcgaaatcac tggcaaaacc 180
 catgttaatc gcattttaat acatcttgca tttcatcatc tgtttgtact acctg 235

<210> 32693
 <211> 400
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-038-Q1-K1-C9

<400> 32693

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 taatgggngc ggggccatcc ctcttctagc tcgtttcatt atccatggct gaggagaagc 120
 accaccacca ccacctgttc caccacaaga aggacgagga gcaggccgcg gccggcgggc 180
 acggcgagtc cgccgagtac acggaggcca cggtgacgga ggtcgtgtcc acgggcgaga 240
 acgagtacga cgagtacaag aaggaggaga agcagcacia gcacaagcag cacctcggcg 300
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 acccgagca cgcgaccgt cacaagatcg aagaagaagt 400

<210> 32694
 <211> 384
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-038-Q1-K1-D1

<400> 32694

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 tccgccggcg gggggtgcaa gcgcatgcgc cgctccccgc gggggccatc ggggacttcg 180
 cgctcgacct cgccgctgtc gccgacgcgg ggctcttcga cggggccgcg ctctccggct 240
 ccccgctgctt ccaccaggag acgctcaaca tggtcctggg gatgggccgt ccggattgga 300
 ctgaggcgcg cggtacgcta caaaaaatcc tatcatccga cgagcccgtc ttgcgtgaca 360
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<210> 32695
 <211> 458
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-038-Q1-K1-D10

<400> 32695

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gagtagcatc gtagcatgca gttggcagac atgaacaccc cggggcaaag cctggaggag 120
gtgatggcga tcatccagga ggcgcggaag ccaggggacg ccatgaacct tgccgggcag 180
ctgccctgcc tggggagcgt ggaccttgac gacattgatt ttgacgatat tgacgacatc 240
gacactgaga acagcggcga cttcgtttgt gcagtgtgac tgtgtgaggc tcagcagggc 300
aggagctagc ttcctttgat cgttggtgtc tgtagatcct tgttgtgcta tgcttncatt 360
cgttcctgga tcagatatgt tgttgtgtaa ccgagaaaat tggcggttgct gtggacaaca 420
taaacagacc cataaactta tgcggaaatc taccctccc 458

<210> 32696

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-D2

<400> 32696

gaggagagta cagtgcgaagc ccgacttctt ggattttata taaaaaagat gtgtggttcc 60
gatgataagt atcggtttga aattaaggat attcttgaaa tggaaatgaa gtccttgga 120
gctctcgact attatttggg tgttttccat ccatatcgtc ctctcttaca gttgttgag 180
gatgctggca taacagacct gacacaattt gcctggggcc ttgttaatga tacatacaag 240
atggacctta tcctcatata ccctccctac atgattgcac tggcctgcat atacatagcg 300
agtgttttga aagataagga caccacagca tggtttgaag agctccgtgt tgacatgaac 360
atagttaaga atatctctat ggaaatatta aacttctatg acacctacaa gattgatcct 420
caaaggggca 430

<210> 32697

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-D3

<400> 32697

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gtgggtggaca atgagctatg ggggtacca gttggcttat tcggggaaag gaataacatc 120
tacacacaag attcaaaaat tactgaatgg acaagtatcg acaatttgac atatagccca 180
cttacttgac tacattttcc acaccagtgg gaagtgacgc agtgacactg aaccttagtg 240
gtatgggtaa ggggtgaagta tgggtcaatg gagagagtat cggacgatat tgggtctctt 300
tcaaggctcc tagtggcaat ccttcgcaat cactgtatca cataccacga gaatttctaa 360
accctcaaga caatacccta gccctttttg aggaaatggg aagtaacca cagctaataa 420
cagtgaacac aatg 434

<210> 32698

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-B6

<400> 32698

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gatgctgctt acagagctgc acttgaagct gatcaggcca gggaacgtga aaggttagag 120
gaactggaaa gacgtgaaag agaggctgca gaggctgaga aaaagcgtaa agaagaggag 180
gaagctgtag caagggcatc ccaagaagca gctgagaagg aagctgctct tgcaaggagg 240
aggcaagaga aggccatggc tcttgagct gaacctgaga aaggaccagg tgttactcgg 300
gttctcataa gattcccaac tggagagcgc agagagcgga gattctacag ttctgcaacc 360
gtcgcttccc tctatgacta tgtcgattct ctagactgca tgaaagcgga gacgtacacc 420
ctagtttcga at 432

<210> 32699

<211> 468

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-037-Q1-K1-G7

<400> 32699

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gcggcccagc tgggtactct cgggctatca ctctctcgcg ctgtcgccgg cccggccgccc 120
gcgcagaact gcggctgcca gccaaacgta tgctgcagca agtttggcta ctgcggcacg 180
accgacgagt actgcggcga cgggtgccag tcgggcccgt gccgctcggg cggcggcggc 240
agcagtggcg gcggtggtgc gaacgtggct agcgtcgta cgggtcctt cttcaacggc 300
atcaagagcc aggccgggag cgggtgcgag ggcaagaact tctacacccg gagcgcgttc 360
ctgagcgccg tcaaggcgta cccaggcttc gcccatggcg ggtcgcatgt gcagggcaag 420
cgcgagatcg ccgnttctt cgcgcacgcc acgcacgaga cggggcat 468

<210> 32700

<211> 477

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-H1

<400> 32700

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ctggacgagg agcggctgac ggaggcgggg atagaggcga tgggtgtcgcg gttcctggcg 120
caggtgaagg acgggacgtg gggcgagcag ggggtggcca aggtgtggac ggactactcc 180
gtctccaagc tggccctgaa cgcctactcc cggctgctgg cgcgcgggct ggaggcgcg 240
ggcgtgagcg tgagcgtgaa ctgcttctgc cccgggttca cgcgcacgga catgaccagg 300
ggctggggga agcgcaccgc cggcgaggcg gccgacgtcg gggcgcggtt cgcgcttgtt 360
gccgccaccg agcttccac ggggaccttc ttcaagtggc gcacgccgca gctatactct 420
aagctgtgac tggctctggg ctctggcttg cttgctagct gagctgtcgt ccgtcgg 477

<210> 32701

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-H11

<400> 32701

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cgccgctggg tgccccctca gcctccaggt gttgcatgag cagaagcagc tgctgctata 120

cgtcaaccaa aggtccctcc aaagcagccc tccagcgatg cctctcgggc agctggagag 180

atgcaggatga atgggtgcttc aagtgcacga ccggatgctg tgactgaggt tctgtttaat 240

agtgtaccca caagtgatgc tggacacagc gagatcgaag aacaaccagt ggccgtctaa 300

gtgaaaaacc gagaccagcc aagaactggg aagcaatcta agagagattt ggggtttctg 360

gtacatacct gggtttgtca tacatttctg aataacatgt gtcaaaacag catgacgaca 420

acat 424

<210> 32702

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-H12

<400> 32702

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tttgagagaa gcggtaaagg gtgacactat ggatctgaga gcagccactg agattatatg 120

ttccaggaca ccatcacagt tgcaaataat gaaacagact tattatgcta gattcggtac 180

ttatcttgag catgacattg ctcaccacac atccggtgat caccagaagc ttttacttgc 240

atatatgggg attccacgct atgaagggcc cgagggtgat cctacaaatg tgacacatga 300

tgcaaagggt ttgtacaaag ctggtgagaa aaggctgggt acggacgaaa agaatttt 358

<210> 32703

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-037-Q1-K1-H2

<400> 32703

ccaagaagca agaaaactag aaaaggctcc tcccgaccgc aacgcccctc atctccctcg 60

accccgccat ccccgaccgc atggcgccca aggcggagaa gaagccagcg gagaagaagc 120

cggcggccga ggagaaggcg gagaagacga ccgcagggaa gaagcccaag gccgagaagc 180
 ggctgcccgc gtccaagtcc tccggcaagg agggcggcga gaagaagggg aagaagaagg 240
 ccaagaagag cgtggagacc tacaagatct acatcttcaa ggtgctgaag caggtgcacc 300
 ccgacatcgg catatcctcc aaggccatgt ccatcatgaa ctcttcacac aacgacatct 360
 ttgagaagct ggccggcgag gccgncaagc tggcgcggta caacaagaag cccaccatca 420
 cgntccgcga gat 433

<210> 32704
 <211> 398
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-037-Q1-K1-H4

<400> 32704
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 attgggcaca ttgctcccga gtacctatct accggcaagt cttctgagaa gactgatggt 120
 tttggctatg ggatcatgct tctggagctt attactggcc agagggcatt tgatctagct 180
 cgtcttgcaa atgatgatga tgttatgctt cttgactggg tgaaaggact gttgaaggag 240
 aagaagggtg agatgctggt ggaccagat ctgcagaaag cctacgagga ggtcgagggtg 300
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 atgtcngaag tgggtgaggat gctcgaaagt gacgggct 398

<210> 32705
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-A12

<400> 32705
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 ggtcagcagc ggcgacgcgg agcgggagcc ctccgtgttc tccaagatca ccaggttcga 120
 ggaggagctc cgcgcggtgc tgccccagga ggtggaggcc tgccgcgtgg cggtcgccga 180

gggcaccgtc cccgtggcga accggatcgc ggacagccgg tcgttcccgc tgtaccgctt 240
 cgtgcgcgag gagctcggct gcgtgttctt gaccggcgag aggctcaagt cctccggcga 300
 ggagtgaac aaggtgttcg tcggcatcag ccagggcaag ctctgtggacc ccatgctc 358

<210> 32706
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-A5

<400> 32706

gcaaaagcaa tcgcgaaagc gagcgcgagg cgagtcgggc ggcgaacggg gcggatgggg 60
 cgcgagctgc gcggagtccg cgacgacctt ttcgagctgg ggcgccacct gctcgacatc 120
 ggctgatctc tgcacccggg tgtcaaaccg ggccacaccg actcacctgc acgtacccgc 180
 acggaccgcc ggcgtgcgaa ccggtatcgg ggacagcacg gtcggtgacg ctgcaccact 240
 tcgtgcgcta ggagcttggc tgtctgatcc tgaccagatc agaggctcaa gtccctgggc 300
 gatgagcgca atatggtgtg gcgcggcatc agccaggga agctcgtgga ccccatgcta 360
 gagcgctca aggagtggga cggcaagccg ttgcccatac acatcgagtc aaagaacgcc 420

<210> 32707
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-A8

<400> 32707

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 gcaagccctc gtgccacgcc gtgatgaccg gcgactggag gccctccgcc accgaccgcg 120
 ccgcggggag gctccccgga tacggcctga ccacgaacat catcaacggt ggtctagagt 180
 gcggcgagga ccgctccacc gacggcgcca aagccgcaa ggaccgggtc ggctactaca 240
 agaggctactg cggatatgctc tgagtggggg acggggacaa catggcatgc gggagccaga 300
 agccttacgg aggatgatga cactagtagc tgatctatgg ttgctgcaat gcaagccttc 360
 acgtgtgttt gcctctctac ctaaagaata aatcaagcta gcagcaaacc taccttccgc 420

gtgtgtctac tt

432

<210> 32708
<211> 263
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-B10

<400> 32708

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gcctcccaga tcccagactc atctctctac cccactcgaa cgaaagccgg cgctcgacat 120
gggaggggtgc cacgcgaaac cgctcacgca ggacgcggaac tgctcgccgt cacacgctgc 180
gccttcgacc ccgcccccg gcaacgctac ccccgcccc gggaaaaatc acttttcggt 240
gtccccgttc ttcgcgttct cca 263

<210> 32709
<211> 455
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-038-Q1-K1-B11

<400> 32709

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ggcttttgac gaggccatct cggaactgga caccctgacg gaggagtcct acaaggacag 120
cactttgatc atgcagctcc ttcgtgataa cttgacccta tggacttctg acatctcgga 180
ggaccctgct gaagagatta gggaggcacc caagcgcgac tcgagtgagg ggcagtaaag 240
ccggctttat gtgcctagaa actagtagct agtgtttgct gctgtcgaat gacactatgc 300
aatgtgatct ggaacctggt ttcttgggtg cgacgcttgt tatgactgtc gtcagtaaaa 360
tttgggggct ccccgatatga gatgctgccg ggcaaggcct cgggtgtcca ccttgtttgt 420
ggcggngggc gctggagccc gggctctggtg ggttg 455

<210> 32710
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-B12

<400> 32710

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gccccgcatg cgtcaagtgc atcaccggac tgatcactcc aaacatcaac tatacgtgga 120
cagcactttg atcatgcagc tccttcgtga taacttgacc ctatggactt ctgacatctc 180
ggaggaccct gctgaagaga ttagggaggc acccaagcgc gactcgagtg aggggagta 240
aagccggctt tatgtgcta gaaactagta gctagtgtt gctgctgtcg aatgacacta 300
tgcaatgtga tctggaacct ggtttcttgg gtgcgacgct tggtatgact gtcgtcagta 360
aaatttgggg gctccccgta tgagatgctg ccgggcaagg cctcgggtgc ccacctcgtt 420
tgtggcgggg ggcgctggag cccgggtctgg ttgg 454

<210> 32711

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-038-Q1-K1-B3

<400> 32711

actgcgccat tggccagcta gagccggcca gaagagcttg cagttactga gagtgtgtgg 60
ganagagagg atgggtggca gcggcagggc tgctctgctg ctggccctgg tgggtggtggc 120
cgtgagcctg gccgtggaga tccaggccga cgccgggtac ggttacggcg gcgggtacac 180
cccgacgccg acgccggcca ccccgacccc gaagcccag aagccccca ccaaggggcc 240
gaagccggac aagccgcca aggagcaca gccgccaaag gagcacgggc ccaagccgga 300
gaagccgccc aaggagcaca agccgacgcc ggccacgtac accccgagcc ccaaaccac 360
gccgtcgacg tacactccca ccccgacgcc cccaagccg acgccacca catacacttc 420
cggcctacg cc 432

<210> 32712

<211> 157

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-B4

<400> 32712

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gaaaaagtaa aaatgaaaat atagaaaaaa taaatattaa atcataatca attaatatata 120
tattaaacaa aaatttaatc aaaatatata aattaa 157

<210> 32713

<211> 266

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-B5

<400> 32713

aacaaacaaa caatataaaa aaaaaagact acaaaaatta tactaattat catcggaag 60
cgcacattca tacagggctg atacctaact tatcacttca catcaatgac taatactgac 120
acatcacttt acatcatgca tcatctctta aagataactc tactcctata actctaactg 180
acatctccag acaatccctc tttaacatat tatcagatgc tacccaaaca gccactctac 240
ctgatcggcc attaaatccg tctcta 266

<210> 32714

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-G5

<400> 32714

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ctggagagat acaaagctca gtataagtgc ttgtccttgt aggtgttgct gtagcacag 120
tactgatgt tagtgtgaac tctcaagggt tactagctgc agtaatagct gtttgagca 180
cagcactaca gcagcattat gttcaccacc ttcaatggaa gtactcgctt ggctcattca 240
acctcttagg ccatactgct ccagcccagg cagcatcgtt gttagtattg ggtccttttg 300
tggaacttctg gctgaccaac aaaagagtcg atgcttttaa ctacacatca atagttacgt 360
tctttatcgt gttgtcgtgc ataattgctg tcgggaccaa cctaagccag ttcatatgca 420

tcggaagatt cacggtcg

438

<210> 32715

<211> 55

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-D4

<400> 32715

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55

<210> 32716

<211> 460

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-037-Q1-K1-D7

<400> 32716

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gtgacgaggg gaggggaggg gaggagggag ggcaggcggg ccgacgaatg cacagtccccg 120

gagaatattg gtgaagcaat aacttgatat tgggttctag accaaagaag caatggaaaa 180

ggaatcatct gccacatacg agccaaaaag gaacagtgaataaagggttt ttgagagttc 240

agatgagatt tcaacggatc ttgctgagta tatctcacia gtttcagaaa tttctgtcaa 300

agaaagggga tacttttgcca tcgccttatac tggaggtccc ctagtcagnt ttttggggaa 360

actttgtgaa gtcctatata acaagacact ggattgggtcc aaatgggtaca tcttctgggtc 420

tgatgaacgt gctgtggcaa aaaaccatgc atagagtaac 460

<210> 32717

<211> 52

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-D8

<400> 32717

acgctcacgc taccgcatat gatagatatt ctttttctca tcagcaattt aa

52

<210> 32718
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-D9

<400> 32718

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ctcgatctca ggcgcaccct taccacccgc caccagatgt gtaccgcctt cccctcggg 120
gccatggaca tccaccacca ccccatggcg tgtaccgcc gccgccgcag ggtccttacc 180
ccccaccaca gcagcctcca ccgggggtacc agggctactt caacgaccag cagcgtcctt 240
actaccgcc gccgcatgga gagcatcaac acaaccacca ccagggaaac cagggtagct 300
cctctgggtt cctcaaagga tgtttggctg ctctctgctg ctgctgcgtg ctggaggaat 360
gctggcgctg cttctgagac gtgagat 387

<210> 32719
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-E11

<400> 32719

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gaaaaaggag attgatatgg aattagttgc tgggtcaaaag atagtatctg aagctctcaa 120
aatatcattg ctgtctgacc ccagagctat ggatgcaaaa ggtgagaatc gtcttgaaga 180
ggagccagca gaaaacaact tggttggaat tagagatgct cgattgaaag agcgggtgcac 240
caagactgac tccatgacag tcaaagtgga acctgccaaa gcagaggcga tggaatgttt 300
agagaacagt agttttggca gttcggaaat ggatctttca gcagtgaaag ggaaatcaaa 360
accaagaca gaaaagggtg 380

<210> 32720
<211> 192
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-E2

<400> 32720
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 ctgctggccc tgggtggtgtt ggccgtgagc ctggccgtgg agatccaggc cgacgccggg 120
 tacggttacg gcggcgggta caccgccgac ccgacgccgg ccaccccgac cccgaagccc 180
 gagaagcccc cc 192

<210> 32721
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-E3

<400> 32721
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 cactagatag gtgacccaat aaggcaataa tgaacccatg gtcggagtag tgggtgtcatt 120
 acatgaacat aagttactat ttaattagca tggagaatag aaggtggcga tcatttcctt 180
 agctcctgtt agtgtccctg aacataagtt acccatggtc tgagatgtta catctttctg 240
 agctatcttc tctcggtttg tacttctgtt agtgtccctg gcaccatata attcatttgg 300
 agatattcaa tcagctgtgt ggctatgtaa aattgggttg attttaagt atctgtgagc 360
 attaactttc aatgtaccaa aaatcgatct taatatatga gatggattat atgggg 416

<210> 32722
 <211> 465
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-E4

<400> 32722
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 ttaatttctg tcagtatcat tttctctcgt tttcatcttg ggtttttggc cctgtttggc 180
 acagcttatt ttcagcttct tcacaaattt aagcagaagt tctgccaaac agccagcttc 240
 tacagcagct tattagttca gctgcttctc agaatacact aaaagcagcc aacaagcaga 300

agctgccttt caccagcttc tcagataagc tgctttttca acaagcagca gttgtgccaa 360
acaaggcctt ttaatgtaca tataatgtgt gggatggtaa gatactagca tgctaccttg 420
agccttgta ttttcttagc atatctggac aggcttgttt atttc 465

<210> 32723
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-E5

<400> 32723

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ctccgtctcc cccgttcccg ttcccgcgtc cgtctccgtc cccatcggcg ccgacgggtt 120
tgggtctccg cccaacacgc tcacggagcc ggtatgggac accatcaagc gagacttagc 180
acgcatcgtc agcaatctca agctcgtcgt cttccccaat ccctaccgcy aggaccccg 240
caaggcgctt agggactggg acctgtgggg tcccttcttc ttcacgtctt tcctaggcct 300
cacgctctcc tggtcggctt ccgtgaagaa gtctgaagta tttgctgttg cattcgcggt 360
cctggcagct ggtgctataa ttctgacctt ggaatgtctg cttct 405

<210> 32724
<211> 125
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-E8

<400> 32724

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tacggctcga agcaaacgat cctcaggctc tcaactgtccc acccgatttc cctcccggtt 120
atttc 125

<210> 32725
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-E9

<400> 32725

gcgcgtcagg ctctacgtcc ggggcacccat cctcggatac aagaggtcca agtcgaacga 60

gtacgagacc acgtcgttcg ttcagatcga gggggtgaac accaaggagg acgtcgcgtg 120

gtacgctggc aagcgcattg cgtacatcta caaggctaag accaagagca gcgagacccg 180

ctacaggtgc atctggggca aggtcaccgc cccgcacggc aactcggggc tcgtccgcgc 240

caagttcaag tccaaccttc cgctgagtc catggggcgc aaggtcagag tgttcatgta 300

cccagacagc atctaagggtt aggttttttg tgaagtaaaa gtggactcca aatggccatg 360

cttatttctt ctctctgagc ttaaaat 387

<210> 32726

<211> 366

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-037-Q1-K1-F10

<400> 32726

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tctgtgatca ctggagccac caaagaaagc cagattgtgg agaacatgaa ggccctagat 180

gtcatccac tgctgacgcc ggaggtcgtc gacaggatcg aggcggtggt ccaaagcaag 240

cccaaagca acgtcgagtc atacaggtga aaattcgggtg ttcattccgac ggagttcagg 300

cctnctncac gaaaactcat ccatgatccg ggtgtattct gggcgtggtg ctgtgttcac 360

aaacac 366

<210> 32727

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-F12

<400> 32727

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gaaagatgaa aaggactttg aaaagagagt caaagagtgc ttgaaattgc cgggagggaa 120
gcggatgggg gctggcgacg cgcaccggcc gtatgcggaa cggctcctgc tgggccgccg 180
atcggctcgg ggcgtggacc gttgtgcccc gcgcgggcag ccgtcgtcgg cgcgacggt 240
atccgcgcgc ctatggcgcg cccctcggag cgcttcgccg caacggcctg cgagctcccc 300
atccgacccg tcttgggaaca cggaccaagg agtctgacat gcg 343

<210> 32728
<211> 185
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-F2

<400> 32728

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aaggaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaataaaa aaaaaacaaa atatttaaaa 120
aaaaaaaaat atataataaa ataaaataat atatattaac tttttataat tttttaccta 180
tttaa 185

<210> 32729
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-F4

<400> 32729

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ggtcggccgc accgtgcagg agctctacgg catgggggcg cgccgcgtcg gcgtcacgtc 120
gctgccgccg ctgggctgcc tgccggcgtc gatcacgtg ttcgggcacg gcgccgccgg 180
gtgctgtgcc aggctcaaca gcgacgcga gagcttcaac cggaagatga acgccaccgt 240
ggacgcgctg gcgcggcggt acccgacct caagatcgcc gtcttcgaca tctacacgcc 300
gctgtacgac ctggccacgg acccccagtc gcagggttc gcggaggccc cgcggggatg 360
ctgcgggacg ggcacggtgg agaccaccgt gtccttttg aacccaagt tcgtcgggac 420
gtgccccaac ggcacgttct ac 442

<210> 32730
 <211> 441
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-037-Q1-K1-F6

 <400> 32730

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 gtagagatac aaagctcagt atagtgttg tccttgtagg tgttgctgta tgcacagtca 120
 ctgatgttag tgtgaactct caagggttac tagctgcagt aatagctgtt tggagcacag 180
 cactacagca gcattatgtt caccaccttc aatggaagta ctcgcttggc tcattcaacc 240
 tcttaggcc a tactgtcca gccaggcag catcgttggt agtattgggt ccttttgtgg 300
 acttctggct gaccaacaaa agagtcgatg cttttaacta cacatcaata gttacgttct 360
 ttatcgtgtt gtcgtgccta attgctgtcg ggaccaacct aagccagttc atatgcatcg 420
 gaagattcac ggccgtctcg t 441

<210> 32731
 <211> 310
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-037-Q1-K1-F7

 <400> 32731

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 tctgatcata cagataatga taaagaaagg ctcgctccac taatagctta ttggagcact 180
 ttactagacg ttcgcatatc tcgcgaccat taaagggtaa tatctatcac atcatcacia 240
 ctagtacgcc atactgagtg aaagatagca tgatcgcttt gcattaccag tactgcgcct 300
 gactcgctta 310

<210> 32732
 <211> 162
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-F8

<400> 32732

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gttcattatt aggaaattgc attgagctgt aatcagatgc ttctctcctc aggtggtaca 120
ccgaaattca tacaatattg tgtgctaaaa aaacaacaaa ga 162

<210> 32733

<211> 289

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-D12

<400> 32733

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gatgggctcc agtatccaag ttgaaccctc tacggatgag ttagatgagg ccatacaacc 120
tcctgacgat gacatgggca tctcatcatc tgcgtgggta gaagtagagc gtcaagaact 180
agaagtcact gtttcgagtg aaaatgtagt tgttgaagat gtaacttctc caagaattgc 240
accattgccg tcatcaagcc caagaatgcg tcattcgggtg gcacaaatg 289

<210> 32734

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-G11

<400> 32734

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tcaagagacg aaacgggtcga catggctcgc acgcaatctg ccgtagcggc cgccgtgggtg 120
gccgcggtgc tgctgctggc aacggcggcg acgacctcgg aggccgccat tacctgcggg 180
caggtgagct tcggcatctc gccctgcctc tcctacgcc gcggcacggg gtccggggccc 240
tccgcgtgct gctgtagcgg cgtcaggaac ctcaagagcg ccttcagcac cgtcgtcgac 300
aggcgcgccg tctgcaactg ccttaagaac gccgtcaggg gcgtcagcgg cctcaacgcc 360
ggcaac 366

<210> 32735
<211> 279
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-A8

<400> 32735

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cattggtttc atcaagtacc gttgaagagg cactgtgct gctgtggaga acttcctaca 120
tcaaagaaat gggtccttca ttagaaggcc taatttatgc gctttagctt tttgttcaga 180
acttgagact catgtgttaa actcgacttg ttaaagtttt gatggctact ttgtgcttgt 240
tggaccagct ataatcagaa gattgaaatt ttctcactc 279

<210> 32736
<211> 421
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-037-Q1-K1-A9

<400> 32736

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gccacctcca tccccctcgt ctccggcgccc tctgcatgcc cgtccaagaa gaccaccgtc 120
gccaggttcc ggcgccgcac ggcgacgtgc agggccagca gcggcggtgg cggtggccgg 180
ggcggcgaaa atgatggcct cctttggctg ccccgcgagg acgtgatgct caacggcctg 240
tccagtgtcg ccgncgggct cgcttggtac ccgggcgtcg cgtccggcgc ggatgcccg 300
gtgcaccagg ccgacaaggt gaacgagaag accgtgcagt gcacgggacc cgnncggcag 360
cttccgtgcc ctctggtgtc gncgacggac cccgtggact tcaagccgga aagcaaggtg 420
a 421

<210> 32737
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-B3

<400> 32737

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gacggcgagc aagcagcagc tggagggcat caggaaggat gccaaagctcc aagctgagtg 120
caggaggctg caggccgcgg cacaacggag ggcgtcctcc gtgaacgtcg agctccggcg 180
ttctccgagc tcggcctgcg tcgagtcgct cacggattgc cagtcggact gctccgactc 240
atgggcctcg gccctcgtca cggagctcga ccagttcaag aaggacaaga gcggcgcgag 300
caccaggaca gcgagcctcg tggccgcgga catcgacgtg atggacgact tcctcgagat 360
ggagaagctc gccttcgcga acggctcgtc gaaaggcgac gccgtcgagg acgcgagcgg 420
gc 422

<210> 32738

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-B4

<400> 32738

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cgccagggtc agggccgatg ggtgccccct gagcctccag gtgttgcgat gccagaagca 120
gctgctgcta tacgtcaacc aaaggtcctt tcaaagcagc cctccagcga tgcctcttgg 180
tcagctggag agatgcatgt gaatggtgct tcaagtgcac catcggatgc tgtgactgag 240
gtgcctgtta atagtgttac cacatgtgat gctggacaca gcgagatcga agaacaacca 300
gtggccgtct aagtgaaaaa ccgagaccag cctagaactg ggaatcaatc taagagagat 360
ttgcggtttc tggtagatgc tgaggtttgt tatacatc 399

<210> 32739

<211> 55

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-B5

<400> 32739

cccacgcgta acacgtacgc acgttttaac acgtgcttca acaggtttat tgtga 55

<210> 32740
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-B6

<400> 32740

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cgccgctggg tgcacctca gcctccaggt gttgcatgac cagaagcagc tgctgctata 120
cgtcaaccaa aggtcccttc aaagcagccc ttcagcagat cctctcgggc agctggagag 180
atgcaggtga atggtgcttc aagtgcacac ccggatgctg tgactgaggt tcttggtaat 240
agtgtacca caagtgatgc tggacacagc gagatcgaag aacaaccagt ggccgtctaa 300
gtgaaaaacc gagaccacagc cagaactggg aagccatcta agagagattt gggggttctt 360
gtacatactg ggggttgtca tacatttc 388

<210> 32741
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-B7

<400> 32741

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gctggatctt ggcacatcgc cgccgccgct cacttccgct ccacctgttt ggtgcagtgt 120
gggctagtta tctactagta gtaccttcgg ccttcgggcc agttcaagac ttgccactgg 180
tgcagattcc gttgatccca catctgaaaa gcaggggagt cgacgaccct catgggtttg 240
aggataatat attgcatctc tgcactgttc taagcgtgag gaagtaaagc attatttatt 300
ggttggagta gtttctgttg ctatccggca ccaatggcga ctttggttcg tcatgattca 360
aggcagtact cttggtggtg ggtagccat atcagcccca agaactcgaa atggctccag 420
gaaaatctca gc 432

<210> 32742
<211> 470

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-037-Q1-K1-B8

 <400> 32742

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 aatgagcttg caccacagct tgttcagctc tgttttgcgc tattgggcat gtggaggtca 180
 atgaaccatt tccatgagat acagaatgag attgttcagc aagtcctggtg tctggtggac 240
 agtccatgg ccgagtcaac atctgacctc cacaggcttg caactcgtga ccttgaagct 300
 gctgttgccg cgtggcactc caacttcgac cgcctcatca agtatcagcg cgaatacatc 360
 cgctctctgt atggctggct gaagctcaca ctctgccagg tggatagctg tgtgccacag 420
 ggagcccatg cctcgatgat ctgcgcgaa ctaccagct tctgtgacga 470

<210> 32743
 <211> 348
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-037-Q1-K1-C12

 <400> 32743

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 gttgttcaac ttcaagaagg atagggatgg ctattggaag tggtttgctg gcaacctggc 180
 ctctggtggt gctgctggtg ctctcctctt gttttttgtg tactccctgg actacgcgag 240
 aacaaagttg gctaatacgc cgaaggctgc caaaggagga ggtgaaaggc aagtcaatgg 300
 gcttgctgat gtctaccgca agacactcaa gtctgatggt attgctgg 348

<210> 32744
 <211> 466
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-037-Q1-K1-C2

<400> 32744

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tggatcgatc cgtgcgcggg ctccgtccgc cccgggttcc gatctggtcg ccgcctcgcc 180

tgaggagatg aacggcgccg ggggcagcca ccaccagcag cagcagaggc tccggcagca 240

gcagcagcag gcgctcctga tgcagcaagc gctgcagcag cagcagcagc agcagcagta 300

ccagtccggc gtcctcgccg ccgcccgggc ggcggccatg acccagatgg aacctggttc 360

caatggcaac cttncacctg ggtttgatcc ttccacttgt cgcagtgtgt atgttggaaa 420

tgtgaaccct aatgtcacgg agagcctttt gattgaagtt ttccag 466

<210> 32745

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-C4

<400> 32745

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gtcctctgcc cgctgcagat catggaggag gaagcatggc aggagtgtct gcatgggtcc 120

tgagagtcgc gtgagcagcg aagcagttca cggatggttg gatggagggc aatgaccagc 180

tgctgagctg ctgctgctcc tcttggtcga ccatcagttt gtatttgtcc atgcctcgtg 240

tagccggccc gcttcttgcc ctggcttgtc cagttccgga aggcgggcaa gcccggtgag 300

gcgtggacag agaccggcaa gtcagagatc ggcaatagtg agctccagca ggagcctact 360

tgtactcctt atttaccgtt ttttaaggttc ccttcttcgt gctggtcctc gtcttccttc 420

gtttcttctt gtctgttccc t 441

<210> 32746

<211> 169

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-C6

<400> 32746

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gcacggcgcg caatttgttt agaaaccctc catccttctt tcattcttac cacaattctc 120
tcacgatac ctgttccgac tttttaatct cacttattcc aacttgctt 169

<210> 32747
<211> 466
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-C7

<400> 32747

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gcccggtttg tttgaagcag ttagcgttcg aactccttgg agctgcttgt tctttcttca 120
tttccggagt tggatggcac tgtgaggaag tggcacgaag ataaagagca attctgcgcc 180
cagtaatgtt tatcaaacgt ttgaatttgt cacggggcgg tgtttgtttc caacacatat 240
cgtctttcca gagtgggtgtg gcctgtgaat tctgcgaaaa taagggtggtg gcttcagagg 300
agtgcccggtg gatattctcag tttgaagtgg ggtgggtggct ttgtgcagtg tgaatatggt 360
tagatagtgc gaggatatgg tccctttttc caccggggcca tggcagaacg gtttttgtgc 420
ccgatagagt tcattttccc ccctccagat ttggtatacg taatgc 466

<210> 32748
<211> 469
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-C8

<400> 32748

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gctatctgtc gtgagagtta tgttcaaadc gccgagctaa aaaggaaaaa tgtcgagtac 120
aatgagaact ttaggagatt tatgttagag tcggacaact ttaggcgtta tgttggtcgt 180
gtacctctgc gtcctgtctc accatacaat cctccgccgc ctatgcccga cactctggat 240
cagtgggttc agcagacata tgggtgttctt ttcgacgaag atatctctga tgatgaggaa 300
gaaatctctg atgatgaaga tgagtccttc tgggtgaacat ggtcattatg gtggcttctt 360

cttcttcttg gttcttggtg ctaaaagga gagaagttcg tgacatttga tctagtcttt 420
tggtgctggc agttgtgaga gtgagaacct aaactatgtg ggatgtaat 469

<210> 32749
<211> 284
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-D1

<400> 32749

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gcctatcggt taatgttgcg atggcaccag tcgatataag ctctaagtat accatgaagg 120
cctaccgagg cgacagccgc tctactacg agtggagacc cgtcgagatg tccatgcatg 180
ggcgctgcct aatcggagaa gccgagctct ctgtcgaccg cggaagcctc gcgcttggaa 240
actactgcta ctcagccaag gtcgcctacg tagtctaagg cacg 284

<210> 32750
<211> 387
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-037-Q1-K1-A5

<400> 32750

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accaagaat cagcactacc ggaaggaaca agcttgatca gtaccaaatt ctcaagtatc 180
ccctcaccac agaatcggcg atgaagaaga ttgaagataa caacactctg gtcttcattg 240
tcgacctcaa ggcagacaag aagaagatca aggctgctgt caagaagatg tatgacattc 300
aggccaagaa ggtcaacacc ctgatcagac ctgatggana gaagaaggct tacgtgaagc 360
ttacgcctga ctatgatgct cctgatg 387

<210> 32751
<211> 216
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-D10

<400> 32751

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tggcgaaggt cgatacttcc ctactcaggc tttgaactgt gcattttaagg actgctttaa 120
gacgttgatc aacttcgcca atgataggga tcgctatagc aagtgggaag ctggtgacct 180
ggcctttaca ggtgctgctc atgcttactc tatgggt 216

<210> 32752

<211> 131

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-D11

<400> 32752

aaaaaaaaa aaaaaaaaaa aaaaaaaaat aaaaaaaaaa aaaaaaaaaa aaaaaaaaag 60
gaataaagaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aataaaaaaa 120
aataaaaaaa a 131

<210> 32753

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-F6

<400> 32753

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cgtgggagac catgaagagc agccacacc tgggtgctgat cctgtgcctc caggccgctc 120
tggtcatggg cgtcttcgcc gctttggcta aagaaaatgc cctggttgag agcaaggcca 180
tcgacatcaa cccggggcag ctcaagtgtc gcaccaactg caacttctcc ttctcggggc 240
tctacacctg cgacgacgtc aaaaaggact gcgaccccgct ctgcaagaag tgcgtcgtcg 300
ccgtgcacgc cttctactcg ggcaacaaca agttcaggtg caccgacacc ttctcggcca 360
tgtgcggccc caagtgttag atcagagaag aagaacgcgc gctgctgcta gctgctatag 420
cttcgttctt acgccgacgg ccggtgcatg gttcacg 457

<210> 32754
<211> 474
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-036-Q1-K1-F8

<400> 32754

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tctggtacac cccccattgt acacctggat cctctcctta cgcctataaa aggaaggatc 120
agggccctct tagagagggg tggccgcgcg gggacgggga cgagacaggc gctcgcttga 180
agccgctcgc tccctctccc gcgtggacgc ttgtaacccc ctactgcaag cgcacccgac 240
ctgggcgcgg gacgaacacg aaggccgcgg gatttccacc tctctcacgc ctgtctccga 300
ccacctcact ttcccccttc gcgctcggcc tcgctcgac ccattctgggc tagggcacgc 360
ggcgacattc actcgtcggc ttaaggaccc cccggtctcg aaacaccgac accagtggac 420
ttgttaaaga ctctatatgc ccttngnttt gaatcatacc caagtaaaaa gcct 474

<210> 32755
<211> 223
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-F9

<400> 32755

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agggttgagg aacctttcct ccaacctaa gttatctcct ttttgttttt tttttccaaa 120
tcttgcttat gtgcatgtga ttgtgtacgg ccatggtttt gaaagtgtgt atcggatatg 180
gttatcctcg gtgtgtgggg tcttcataaa ttgcatcaag aat 223

<210> 32756
<211> 479
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-G10

<400> 32756

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ggcggaggag gcggagtgcg cgggtgtgcct ggacgagttc cgcgcggggcg acgtgctggc 120

gcacctgcgc tgcggccacc gcttccactg ggcttgcgcg ctgccctggc tcgagggcac 180

ctcacggtgc cccttctgcc gcgccgccgt ggacgccggc gccgccgccg acggcgcccta 240

gaagcggccg aggtctctgt cttgctgggg cttgcccggtg ggacggcgcg gggcgccctg 300

tcgctgtcgg ccacgccag ccacgccacc cccatggcgt tgccacgcta ggcagtggct 360

agtgggggtg gtcattggtga gtggtgaccg gcctgcttgt gtggcgcgga gcggaggagg 420

acagcgagac gcgcacgacg aaccctgag tgccttggca gttcttgac gctttgcgc 479

<210> 32757

<211> 477

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-G12

<400> 32757

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cccctgcagc aattgttgca acaaaagcta tgttgtctga cccaagggca gagcctcggt 120

atgcagagag agtgccatat gttgtaatcc atggggaacc aggagctcgt cttgccgaca 180

tggttattga tccttatggt ctgctagaag ttggctcccc ttatagatta aatgaacaat 240

attacataac caagcagatt attcctgcat tgcagcgtgt ttttggactt cttggtgctg 300

acctgaacaa gtggtttaat gagatgcctc gcccatacg atcaactctt gcgaaacgcc 360

aatttgctgc tgctcatggt tcattctctc gtgatggcag tttcatccga ttaggattga 420

ataataaaac ctacagccaaa ggaggcagaa tagatacata ctacatgtca agccact 477

<210> 32758

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-G2

<400> 32758

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gtctggaaac agaaattttg aaggacgtgt gcacccctta accagagcaa attaccttgc 120
ttccctcctt ttagttgtgg cttatgcatt ggctggcaca gttaatattg attttgagaa 180
agaacctatt ggcacctcga aagatggaaa agagggtttac ttccgggatg tttggccatc 240
cacagaagag atagccgagg ttgtcaagtc aagtgtgctc cctgacatgt tcaagagcac 300
atatgagtca atcaccaaag gaaatcctat gtggaatgag c 341

<210> 32759
<211> 246
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-G6

<400> 32759
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atgcattggc tttcacactt aatattgatt cttaaaaaaa acctattgtc atctttaaaag 120
attgaaaaaa tgtttacttc ctatatgttt tgccatccac attaaacata tcctaagttg 180
tcaagtcaag ttttctccct tacatgttca atatcacttt taattcaatc accaaaatga 240
aattct 246

<210> 32760
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-G9

<400> 32760
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cgctacccgg tcaagttcta cacgaagtag tacaactggg acgtgatctg caacatgttg 180
ggcatcttct tcacccctta ctgcacccag tacggcgctc tgatccacgc cttgatgcac 240
aagttgaagc cgaacgtgca ggagtacttg caggagtact agttgctgtt cgacttctctg 300
tagagcctgc acaagagcct gttcatcttc tacgacctgt tcg 343

<210> 32761
 <211> 131
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-036-Q1-K1-H1

 <400> 32761

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 tatgatgctg tgtagcaccg catcatgcac accacaccaa tgcaaatgag ttataaatgt 120
 ttttaagctc c 131

<210> 32762
 <211> 293
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-036-Q1-K1-H12

 <400> 32762

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 gtgacgatga ggcaaacggt ggctgtcgga gtcataaga gtgtggagaa gaaggatcca 120
 actggagcca aggtgaccaa ggctgccgca aagaagaaat gatgtgtctg gctggttctg 180
 tgtttgcttg agggaaacct agtggaaca taaaatatct cgtcttgttc acgtcattgt 240
 ctgaactatg ctgcgaacgt ttgcctggtc gatttagaat gggtattttc gtt 293

<210> 32763
 <211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-036-Q1-K1-H5

 <400> 32763

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 atgcatggct gactagatgc acgacaacta catcatgggt taccatacca aggtcatgga 180
 gcatgtcctt tgactcttag acggctagtg ctccgaatca cctaggccaa ctgacagatg 240

tcttttctct ggaccataac gacttcgtcg agatcgagat cgatgacacg ctggagatgc 300
tcaagcatct atgtcgggtga ggtcagacat atcagcggcg aactgatcca ctttacgaca 360
atcacgatgc ccataatgac ccataatcacg ctactgacc tcaagtattt at 412

<210> 32764
<211> 461
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3068-036-Q1-K1-H7
<400> 32764

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attctgtttg tctcatggc ggggtacctc ccatttgaag attcgaacct gatgtcgctc 120
tacaagaaga tcttcaaagc ggatttcagt tgcccgctct ggttctccac aagcgcaaag 180
aagctcatca agaagatact tgaacctaat gctaacaata gaataactat tgcagagctc 240
attaacaacg agtgggttcaa gaaggggtat cagcctccca gatttgaaac agcagatggt 300
aatctggatg acgtgaactc catcttcgat gaatccgggg agccagcaca gcttggtgtt 360
gaaaggagag aagaaagacc atcagtgatg aacgctntcg agttaatctc tacgtctcaa 420
ggcctcaatc tcgggacgct cttcgagaag caaacgggtt c 461

<210> 32765
<211> 450
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-036-Q1-K1-H9
<400> 32765

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gctgtgtatg ggagtcaacg ctatgtaagg ttttctccag aaatactctc gtctcaggct 120
acagggtggga ctttctccc agatgtagta tcagatattg ttacacaaag gtgggatcat 180
gagaataaac agttctcatt acctcctctg atgacccttc tccttgggga acctggaacc 240
ggaggatcat ctactccatc aatgggttga tctgtgaaac ggtggcagaa gtctgaccct 300
gagaaatgca aagatacatg gagtaaactg gcctttgccca attcagcgct ggagaaccaa 360

ctgcgaatct taaaaggact ttctgaaaat caccgagagg catatgagtc ggtagtgcta 420
tcctgtagcc atctcactta tgaaaaagtg 450

<210> 32766
<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-A1

<400> 32766

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aggaaaaaat attaaaaaaaa aaaaaaaaaa atacatataa aattaaaaat acatacataa 120
atattaaatt tcttttatat atagttatit aaatttattc tactcttatt tttattaaca 180
tttttttttt taaaccattc ctaatctaaa ctttattaat tttctttaaa atcatttttt 240
tcttattttc tatattttta cattagtata ttcttttcta ttttcttata aaatt 295

<210> 32767
<211> 52
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-A10

<400> 32767

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<210> 32768
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-A11

<400> 32768

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ggtggtggtg gccgtgagcc tggccgtgga gatccaggcc gacgccgggt acggttactg 120
cggcgggtac accccgacgc cgacgccggc caccgccacc ccgaagcccg agaagcccc 180
caccaagggg ccgaagccgg acaagccgtc caaggagcac aagccgtcca aggagcacgg 240

gccaagccg gagaagccgt ccaaggagca caagccgacg cctgccacgt acaccccgag 300
 ccccaaacc acgccgtcga cgtacactcc caccgccgacg ccctccaagc cgacgccacc 360
 cacatacact tccggccc 378

<210> 32769
 <211> 245
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-F5

<400> 32769

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 cagccctcgt tccgccgtcc gggtcggagc gcgctcgctt cttcttccca cgtcggacag 180
 gttaagtgtg gcttcacgc gtgagtagtt gcagttagcg tggcttttct tcgtgcttgc 240
 tcctg 245

<210> 32770
 <211> 409
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-037-Q1-K1-A3

<400> 32770

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 cagcaagcgc aaggaccacc ctgcatatag ttttttgtca gcaactgaat catcttcatt 120
 gaaaaatgac aatgttggga atgaactcga cctaagaata gctagcgccc tacagagtac 180
 aggacaccat tatgaaggtg gattttggag tgatggccat aagtctgaca tatctggcaa 240
 gagacatgtt gccatagtca ccaactgccag tcttccttg atgactggaa cggctgtgaa 300
 tcctttgttt cgagctgcat acttggtctaa atcntgcaag gcagatgtaa cttttagtgc 360
 ccctggcttt gtaagtcgga tcaggaactt gtgtaccaa cagcatgac 409

<210> 32771

<211> 205
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-037-Q1-K1-A4

 <400> 32771

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 ctgccactgg ccanngcagg tgccaccntn gccatctctg gctctggcgt ctcgcaaggg 120
 cacacgaccc ggcccgtcct ggcacacagt ntnggccatg gcntgaccan ntagccannc 180
 gatggggcgc tgctnnngaa gcccgc 205

<210> 32772
 <211> 351
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-036-Q1-K1-C3

 <400> 32772

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 acaaggcact tagcgagcct tagatgggca atgtggatga ctgtatgggt tggaccatgc 120
 aactcaatca gtatcggatc acagatatng ccttgacaaa tcccggatta ttacagctac 180
 tgcgtgccat agtttttttt tatggcagat ccatcttgag cattatagac tgtcccggta 240
 ctactttag actaagacaa aagtgatctt actgatcttt tgattaaaat ctataactat 300
 taaataaaat gttgtttgca ccttaattaa gtaaattttt tacatttaata a 351

<210> 32773
 <211> 470
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-036-Q1-K1-C5

 <400> 32773

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 cgcgcgctcc ttcaccgcgc ggggggcctc cgccgtctgc tccacctcga cagcctacgc 120

cgcgactccg aggacgtgca tgcgggctac gccgcgcagc tcgcgcgctc cttccgcgtc 180
 ctcgcctgct tcgtgctccc ctgcgccctc gccgaggccg cgtacaaggc ctactggtac 240
 cgcgccgccc cggcctgcgc cgtcgaggtc gcctcctggg tgtaccgctg cgcgctcttc 300
 ttcattggtct gcgtcctctt ccgggtcctc tgctacctgc agatcctgcg gatggtcggg 360
 ttcgcgcgcg agttcggcag gttcgccgac gtcgccaccg tgctgcagca ccaccgtcgg 420
 atcatggagc agctcacgaa gatcagtcac cggtaccgca agttcatagt 470

<210> 32774
 <211> 206
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-C7

<400> 32774
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 ttctgtatgc gaaaaaaaaa aaaaaaagaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaata aaaaaaaaaa tattaataaaa 180
 caaacaagaa tttatattca ttcaaa 206

<210> 32775
 <211> 180
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-036-Q1-K1-C8

<400> 32775
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 naactgggag cactcgagac agcagcagcg gctttagtgt agatgcatag ataaagcgta 120
 taagtatatct gtgggtctagc gcgtacgtgg aagcttgtgg aggagcttgg tgttgactac 180

<210> 32776
 <211> 195
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-036-Q1-K1-D1

<400> 32776

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gccattgtac acctgtctgc cattgagatg tgtgtcgctg ttcacttcac cccncttctc 120
tttcagtatg atctgagtaa gttctgtcca ttcaacaccg tcctcttgga tcatggcgac 180
ccgtcagtga acaca 195

<210> 32777

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-D10

<400> 32777

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cgaaggaagc cccaccatg ggggccaacg gcaagagcag cttgtcgaac ggcgctcca 120
ccgggggaaa gcccatcaaa tgcaaagcgg cgggtggcgtg gggggcccggc gagccgcttg 180
tgatggagga ggtggaggtg gcgccgtcgg tgcgcctgga ggtgctcgtg aagctgctct 240
tcacctacat ctgccacacc gatctcagtt tcttgaaggg agagaacgag ctgcaccgca 300
agttcccacg catactgagc catgaggcat ccagagtggg ggagagcgtg ggtgacggag 360
tgaggatct tgccgcctgc gaccatgtga tccccatctt caacggcgag tgctgggcgt 420
gcgcttactg cgag 434

<210> 32778

<211> 211

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-D11

<400> 32778

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aaaaaaaaacc aaaacaaat acataaaaga aacaaatata aaaacaaaaa taagccccta 120
caatttttca acaaaccac aatatcccat cataacaaca taccaaactt cttatctctt 180

tccaccctct tacccaacct ccaccttttc c

211

<210> 32779
<211> 152
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-D3

<400> 32779

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aataaaagaa atattttaaaa attcaaacaa taaaaacaat aatacaaatt actaaactaa 120

taaaatttat ataattattat acaaatttta at 152

<210> 32780
<211> 467
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-036-Q1-K1-D4

<400> 32780

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cccacgtacg tacacccctt ccccaaagcc tccgacgccc aagccgaccc caccgcgta 120

cacccttcc ccaaagcctc cgacacccaa gccgaccca ccgacgtaca ctcccacacc 180

gaagccgccg gccaccaagc cgcccaccta cactccgacg ccgccggtgt ctcacaccct 240

cagcccgccg ccaccatact actagaaagc gatgcctacc ataccacact gctgtcagtc 300

tctggagcat ttaggtggtc tggatcaatg gaagggttgt gtcctagcca gccggcaaag 360

atgagctgct gatggtaatg atgatgataa gaggccactg ctaccctact acgtaccctn 420

ctctttgtgt gctggcatcc gtccccgtta gacgatcgan gagagaa 467

<210> 32781
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-D5

<400> 32781

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 catttgctca tcccactatc attttcatat acaattacac tccctaacta cacaattata 180
 ctctattatc aagaataaca taccataact aagctatcat attctacata aatcgtgcta 240
 tcctttcact ataattatat accttacacc ttcaatataa taactactta aatctttctt 300
 catttactac ataacaccat atctagatta aacctatat 339

<210> 32782
 <211> 469
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-D7

<400> 32782

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 ccaaccgcgt cttcgacggc atgccggccc tgctccccgg ccaggacccc gacgaggttc 180
 gcgcgagtta caagccagat gtaatcaaag gggatatgga ctcagtaaga ccagaagtga 240
 aggagcatta ttccaacttg ggcaccagaa ttgctgacga gtcacatgac cagtacacga 300
 ccgatttaca caaatgcata gctattatag ctgataatta ttctgccact aacaaatcta 360
 accagctcag catcttggtt cttgtagcac ttgggtgaag gtatgatcac gagatgggat 420
 acatcaatgg gtcctatctg tgtccaagca taaatatctt cctcctatc 469

<210> 32783
 <211> 326
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-036-Q1-K1-E2

<400> 32783

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 aaccgcgacg agcggcgatg accggcacgg tgtccaagct ggcggcgccc cgtccggcgg 120

caccgccgct cccggccggcg tccctccgca ccgccgccct cgccttcgcc ctttccccgc 180
gccgagtcgc cgtttccgtc gccggggcgag ccaggagccc catcattgcg atggcttcgg 240
ccaaggaagg aagcgggtgca ccgaccaaga ggactgcgct tcattgatctc tacgagctcc 300
agggcctgtc cncgggtgtac gacaac 326

<210> 32784
<211> 466
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-E3

<400> 32784

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atgggtggcaa cactggctga tttttatgtt aatgttattg caatctcggc ttgggttattc 120
tacaaggaag caaactgggt tagttctgct gtgtgggtgg ttctgttgtt ttgctttggc 180
agtgtgtca cttgcgctta tattgttaag aaacttcttg aagtaacatc tgcagggtca 240
tccaagatc ctcttgacct tctatttattc aggcaaggta atctatccca aagaaagtgc 300
tcttatgttg taattggaag gggtattttc agcattttgg ggatattcat ggctgcgggt 360
gtcacatata ctgtcatcac tgatggacta ctttttagga aggaattgtt gacaccgtgg 420
atggcggcaa ccttaattga tttctacata aatgtctttg tgatat 466

<210> 32785
<211> 251
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-E5

<400> 32785

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aatcaaccac acaacccaaa ctcccaaacc aacaaattcc taaaccttaa tcaaacacaa 180
caaaataaaa catttatcca ataacaaata aacaaaaaac ctaaaaaaaaa cctaataacc 240
aacaaaatta c 251

<210> 32786
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-E6

<400> 32786

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cctggatcta agacatcatt cccgagtact gaagtacgag gaacctacgc tccaccgttc 180
catgtcgagc tgtatcgcaa tgaccagcac cgcttcaaga ttgttgatga cggtgatact 240
gaagttgact taatggtgca aacacggcac atgcgagacc gcatcatcct cagcatcaga 300
ggcctcgccc agaagttcaa cagcacctcc ctcaacacac ttctcaagat cgagtcatga 360
tagacctgac agtgtaaaaa ccaactataa cgggaagctg tacccttgt 410

<210> 32787
<211> 202
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-E8

<400> 32787

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tagtgggctt catcttcaaa cgacgataat tgctgttatg gctatcagtc tgcacaacca 120
ttacctagtt catagaaaaa agattctgcc aaaccaacat acagcaagac ccattctaca 180
tcttgaatgc aacacttatt ta 202

<210> 32788
<211> 473
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-C2

<400> 32788

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 cttctatacc ttgttggttc caccttggtt cctgacacca tgaggggatt tgtatcccca 180
 agatatctac cactgttggc agattttggg aagatccgtg agtatgcttg gggggctgca 240
 gcccttgctc atttgatatag gggattgtct gttgcagtaa cacctaatgc cacaacacag 300
 tttctcggca gtgcaacttt gctcatggcc tggatttatg agtatcttcc tattactcaa 360
 ccacaacaga agaaccagag cacattgctg ccccgggcta gccggtggaa ctttggagga 420
 gcaacacgtg gacagagaaa aaaggatcatg gactggagaa aagtttttga gca 473

<210> 32789
 <211> 470
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-F10

<400> 32789

gcgagctgag caaggcggag gcggcgatgg agcggctgca gcggatcttt ggcgcctccg 60
 gcatggggca gccgccgacg gactcgccgc ttctcgactc ctccgagcag gtctacatct 120
 cctccctcgc gcttctcaag atgctcaagc acgggagggc cggcgtgccc atggagggtca 180
 tgggtctcat gctcggcgag ttcgtcgatg actacaccgt cagggtcgtc gacgtcttcg 240
 ccatgccgca gagcgggact ggggtcagcg tcgaggccgt cgaccacgtc ttccagacaa 300
 acatgcttga catgctcaag cagaccggca ggccagaaat ggttgtaggc tggatcact 360
 cacatcctgg cttcggttgc tggctatcag gcgttgatat caatactcag cagagttttg 420
 aagctttgaa ccccgaggca gttgcttgtg tgatagaccc catccagagt 470

<210> 32790
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-F2

<400> 32790

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 cagagaaaga gtcagcttca tcttcaaacg acgataatgg ctgggatggc ttccagtctg 120

cacaaccagt acctagttca gagaaaaaag attctgccaa accagcagaa agcaagaccc 180
 agtctacatc tggaatggaa gacttattta aagactcacc agctgtgcca ttatcctcag 240
 ctccagctgt ttcccaagta aacgctaaga atgatatcat gagtttgttt gagaagtcca 300
 atatggatc acctttcgct gcccatcaac agcagctggc gctcatgtct cagcagcaag 360
 ctcttcta at ggctgctctc aaagctggaa atgcaccaca aatgatgatt ccagggact 419

<210> 32791
 <211> 454
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-H2

<400> 32791

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 aaatgatgag agaaaggctg cattggctgc ccagtttgca gcagaagcaa ctttgcgag 120
 agtacatgca gcccagaaag atgatgacat gccaccaatt gaagccattc ttgcaccact 180
 tgaagctgag ctaaagcttt ctgcccagga gattgcaa at ctccaggatg acaacagagc 240
 tttggatcgt ctaacaaaac aaaaggaggc agctctgcta gaagcagaga ggactgtgca 300
 aattgctatg gcaaaagctg ctatgggtga cgatttgcaa aacaagaacc aagagttgat 360
 caagcaaatt gagatctgcc atgaagaaaa taaaatctta gataagctgc atcgccaaaa 420
 gattgcagaa gttgaaaagc ttagccaaac tgtg 454

<210> 32792
 <211> 441
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-035-Q1-K1-H3

<400> 32792

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 gcccagccg accccgcccga cgtacactcc aagccccaag cctccacac acccgacgcc 180
 caagccgacc ccaccgacgt acacccttc ccaaagcct ccgacgcca agccgacccc 240

accgacgtac accccttccc caaagcctcc gacacccaag ccgaccccac cgacgtacac 300
 tcccacaccg aagccgcccg ccaccaagcc gtccacctac acttcgacgc cgnccggtgtc 360
 ttacaacccc agcccggcgg caccatacta ctagaaagcg atgcctacca taccacactt 420
 gtgtcagtct ctggagcatt t 441

<210> 32793
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-H6

<400> 32793

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 attggctgcc caggttgcag cataagcaac ttgcgggaga gtacatgcag cccagaaaga 120
 tgatgacatg ccaccaattg aagccattct tgcaccactt gaagctgagc taaagctttc 180
 tcgccaggag attgcaaadc tccaggatga caacagagct ttggatcgtc taacaaaaca 240
 aaatgaggca gctctgctag aagcagatag gactgtgcaa attgctatgg caaaagctgc 300
 tatggttgac gatttgcaaa acaagaacca agagttgatc aagcaaattg agatctgccc 360
 tgaagaatat aaaatcttag attagctgca 390

<210> 32794
 <211> 447
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-H7

<400> 32794

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 ccgggggttcg gtttcgtggg tgagcggatc gagatggcgg cgtcggatgt tgagtaccgc 120
 tgcttcgtcg gcggcctcgc ctgggccacg gacgaccact cctccacaa cgccttcagc 180
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 ggcttcggct tcgtcacctt ctccacggag gaggcgatgc ggaacgcat cgagggcatg 300
 aacggcaagg agctggacgg ccgcaacatc accgtcaacg aggccagtc ccgcggcggc 360

cgtggaggcg gcggcggcgg cgggtacggt ggtggccgtg gaggcggcgg ctacggcgg 420
ggcgggcgcc gtgatggcgg cggcggc 447

<210> 32795
<211> 447
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-035-Q1-K1-H8

<400> 32795

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cgggtgcctct cgtttctctt ttcaataatc aagatgagcc gcgggtggtag tgccagcgg 120
ggtcaaagtt ctctgggcta tctctttgga agcggcgagc cccccaaacc agcactggca 180
ccagctgcaa gtgctccacc tgttgagaaa ccatctgctg cacagactga tgcggccaag 240
cacgttgctg ctgcgggttac cagccaaacc aataactacc acagggctga tggtcagaac 300
actgtcaact tacttactga ccgctcttca accaatgtcc acgctgctcc tggcgggtggc 360
tcttccctgn gctacctgtt cgggtggcaac tgatgcccg gctgatgcgc tcaccaaagt 420
tatectcccc tgectgctgc gtgctat 447

<210> 32796
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-H9

<400> 32796

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gcccttgccc ctgcctcgat cttcggctcc caatcctcgc tgctgctgct cccgcgcgc 120
gcgctgcccc ccccgctctc cctctctcac cgccgcatca tcgcgccgt cgcgaccaag 180
gaacccgagc tcggcggcgg cggatcgggg gccggcgacg gtgccggagg gagcggctgc 240
ggcagcgacc cgaggggagg agggcaggaa ggagactgtg aggaagagaa gatggggcag 300
ggcctgtcca tgctgcataa actcaccctc gcctacgccg cgctcgtcag aacttgtggt 360

<210> 32797
<211> 232
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-A2

<400> 32797

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aggggggatt cctggaccac gacggcagaa cgggaaatcg tgagagacat aaaggagaag 120
ctggcctttg tggccctaga ctacgagcag gagctggaga ccgctaagag cagctccttc 180
gtcgagaaga gctaccagct tgcctattgg catgtcatca cgatcggcgc gg 232

<210> 32798
<211> 203
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-A3

<400> 32798

ccacgcgtcc acataagctc taatactgat ctactgatc cactatgact atgccaaatg 60
caaactctcc gagggctctt gttgcccagc ttgttatctt tctgctatca ctctcagca 120
ctgtcgcttg ccctgacgac gcacaaaact gcagctgcca accaaacgta tgctgcaaca 180
agtttggtta ctgaggcacg acc 203

<210> 32799
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-A5

<400> 32799

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gacaggggatc ctactaaagg cattttttgt cacaaaaaca tgctacgttc aaggaatgca 120
ctcctgctga gctagcggcc tatgccttca aaccagcaac tgaaaccgga atatcatatg 180

acaactaagc atcatgcatg ctgctcagca ccatacctag acagacgctg cacgttttagc 240
ccaatctgca aatcagaacc tacagattct gctgaatta tgaacttctt tccctactgc 300
acttctcgat atggtgctca tcatgtgagt gaatcagatc ttacttattg tcgattcgct 360
agaagtgtga ctggttaattg gagtctataa acccgtgtta ggcttcttac atacaactgt 420
tactacaccc aagttagtag aacccttgga ctacttgcc 459

<210> 32800
<211> 244
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-A7

<400> 32800

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acaacatgcc aaacgcaagc gcaccgaggg tctcggcgga ccagcttttt actttctggc 120
tatcactcct ctgcgctgtc gccggccccg cgcgcgcga gaactgcagc tgccagccaa 180
acgtatgctg cagcaagttt ggctactgcg gcacgaccga ccagtactgc agcgacgggt 240
gccca 244

<210> 32801
<211> 187
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-036-Q1-K1-B1

<400> 32801

cccacgcgtc cgtccacgcg tccgcagaag ctcaaatact gatctcactg atccagtatg 60
gctatggcaa angcaagcgc gccgagggtc tcggcgggcc agctggtgac tctcgggcta 120
tcactcctct gcgctgtcgc cggccccggc gncgcgcaga actgcggctg ccagccaaac 180
gtatgct 187

<210> 32802
<211> 156
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-B2

<400> 32802

tccacgccac gcgtgtcgac cactcgtctc cccacgcgtt ctcagaatct cataatactg 60
atctcactga tccagtatgt ctagggctaa tggagacact ccaaggggtct ctgcggccca 120
tctgccaaact ctcgggctat cactcctctg cgctgt 156

<210> 32803

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-B5

<400> 32803

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gcgagtggtc aactcctga cgggacccga aagatcatct actatctctg agcctatcaa 120
atccatacga tactctcgtg caggctcgaa gccatactta cgtgcaaadc gctcatctgt 180
cttgtatata gggtcgatac actaatccaa ccatctagta cttgggttcac tcttaacttt 240
ccctcacgat agctgtagcc cacactagtt ctatcggcta aagccaatga ttatatgcat 300
ccttttctca acgctcttta cctatcttca tactttacct agctatta 348

<210> 32804

<211> 271

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-036-Q1-K1-B7

<400> 32804

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aacactttct catatgagaa actcacgaag tctttttatc agttactact ttttgtatac 120
tcgtttgctt aatctctcga tattcattct ccaatgatc catatcattt aattactact 180
tgagttactt cattatactt ttcttttctt tttattggta attattcatc tttattttta 240
cttattttgt attattttatc ttctaattct t 271

<210> 32805
 <211> 308
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-036-Q1-K1-B8

 <400> 32805

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 aaaaagagaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaataaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaagggcgcc ctttataaag aaccaaagtt aaattaccct 180
 tacttccaac ataaaacctc ttataaagac aaccttaaat caaattaatt gcccatgtgt 240
 taaaaacctc aaaactggaa aaaccttgac atttcctaat ttaataacct taaaaaaaaat 300
 cccctttt 308

<210> 32806
 <211> 449
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-036-Q1-K1-B9

 <400> 32806

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 gatagtggtc aaccaagctg atgatgttgc atgaatcatc tcatcgaagg ctggcctcaa 120
 gtatctgggt cctgatgttg atgctatgaa agctgtggcc gatgcctact ccaaaaggct 180
 tctgaagtac ttcgaaactg ctctccgtga ttacaaagct cagctggaag aagatcctat 240
 tgtccacagg cacctttcct cgctgtatga cactctcttg gagcagaacc tctgcaggct 300
 gattgagccc tactcaaggg tggagattgc tcacatagca gagatgattg atctgccaat 360
 gaaccatgtt gagaagaagc tgtccagat gatcctcgac aagaaattcg catggacact 420
 tgatcaaggc gctggctgtc tcatcatct 449

<210> 32807
 <211> 333
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-H12

<400> 32807

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gttgaaggag aaatttgaaa agaattgtca agaggtagct gagaagttcc aaaacacaaa 120
cttgtatttg aagaacttag aggagaacat tgatgatgag aaattgcgtg aactctttgc 180
tgagtatggc aatattactt cctgcaaggt tatgcgggat tcgaatgggtg tcagcagagg 240
ttctggattt gttgctttca aatctgctga agatgctaac cgagctctta cggagaagaa 300
tggcaaaatg gttggaaagc agccccctta tgt 333

<210> 32808

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-C11

<400> 32808

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ctgggcttaa aatgccggga cgtcagaacc cgtgaggcag ggattcagga tatccatcac 120
aagatccggc cagatgaagt agagcttgct agacgtgact atgctgcaaa tgaggggttg 180
gaaacattcc tctcttatga ggatacacga caggatatcc tgatcgggct gttgcgcttg 240
cgtaaagtgt gccgtaatgt tacatgccct gaacttgtaa ggaggtgttc aattgtgcgt 300
gagcttcatt tctatggaac tgcagtcctt gtgcatggcc gtgatgtgga caaactgcat 360
caccagggat acggaactct attaatggaa gaagcaaaaa ggattgctcg aaaggagcac 420
cgatcgaaaa attatctgtc attttcgggt tggtag 456

<210> 32809

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-F12

<400> 32809

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accttttgcaa aattaataaaa agaagacaag aacaagcagc cgaaaatgga atcatccctc 120
 acttgatgaa atttgtcatg tcagactcac ctctgcggca gtatgccctg cctttgctgt 180
 gtgatatggc tcatgcttct cgcaactcta gagagcagtt gagggttcat ggaggactag 240
 atgtgtactt aaatctgctg gaggatgatg catgggcatg cacggcatta gattctattg 300
 ctgtttgttt ggctcatgat aatgatcaca gaaaagtgga acaagcactg ttgaaaaaag 360
 aggccat 367

<210> 32810
 <211> 346
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-F2

<400> 32810
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 tacacatcat atgccggtga aaccccatct ttatctatgt ctgtacacca caactcgaaa 120
 caatatgcta tcacaacact accaactact tttgatcacg gctttcctgc tctgtcagac 180
 cctattacac atactgcgaa ctctattcat aatgggtactg ggaacaacca tacacatgag 240
 aatcattggt tgtctcagga tgagcctcac tctgcagttc agttcacagg catttaggca 300
 tctgttgatc aatatctatc tgtggcatca ctggaccaac ctatgt 346

<210> 32811
 <211> 448
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-F3

<400> 32811
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 ccaccccttct gttgatcaat ggctgacggg gaggatatcc agccacttgt gtgtgacaat 180
 ggcaactggaa tggtaaggc tggctttgct ggtgatgatg cggccagagc agtggtccct 240
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tatgtaggtg acgaggcaca gtcaaaaaga ggtatcttga ccttgaagta cccattgag 360
cacggtatcg tgaacaactg ggatgatatg gagaaaatct ggcaccacac cttctacaat 420
gaactgcbtg ttgctcctga agagcacc 448

<210> 32812
<211> 451
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3068-035-Q1-K1-F4
<400> 32812

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gatcaaaaaga acttggaataa taaagatgat gtaccgaaca ctgaaaaagg ttcctcaatg 120
ggggtggatt ctgacttcac ttctgaatgt aaaacaaaa ctgtcaataa tatgaaccat 180
tctgggatta ctttaaaaaga aaagagcagc gatcctcctg tcagtaacaa gaaacaggat 240
tctgcagttg agcctgcctc caccgcacca aagagaagaa aggttttgaa gacacgcata 300
gatgagaggg gaaggggaagt tactgaggct gtttgggagg gtgaagggtc tgcagatgac 360
aaggcagaga agaattgtcag cacaactgct gcgagcggng cgactatccc aagcaaaccg 420
aaaccagcaa caagcaccga caaatcaaa g 451

<210> 32813
<211> 191
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-035-Q1-K1-F5
<400> 32813

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tcccggccgt ttaatttact agtgtgttcg tcctatatgt ttagcagcag caggtgtatt 120
gtgcgggtat gtaatggtat tgcaactata ttgggtgtaa aaccataata aatgtgggca 180
aatatgcaag g 191

<210> 32814
<211> 438

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-035-Q1-K1-F7

 <400> 32814

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 ctagttctcc aggcccttct ggtctctgcg gccgtggcca aaggacctgc agggccgacg 180
 acgaagaagc agtgctggtg cggcgagtgc accagctggt cgggcgtgtg gacctgcgac 240
 gacctcctca ccaagtgcgc cgacacctgc aagaactgcg tccccgtgtc cacggacaag 300
 ggggccatca agtacagggtg ccgagacttg ctccccgaaa actgctgctg caagatccac 360
 tatagactca tccaattcca ccatggccgc gcgccacagc ggcacagccg atggatcctt 420
 ccatgttcct acgtccgt 438

<210> 32815
 <211> 419
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-035-Q1-K1-F8

 <400> 32815

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 ttttatgatg taccctacac tgaatatggt ttctaaatgg aggtggataa tgacttcact 120
 tatgaatgta taaccaatac tgtcaatatt atgaaccatt ctgggattac tttaacagaa 180
 aagagcattt attctgctgt cagtaacaat aaacaggatt ctgcagctga ccctgccttc 240
 accgcaccaa agagaagaaa ggttttgaag acacgcatag atcacagcgg aagggaagtt 300
 actgacgctg tctgagacgg tgaaggttct gcacatgaca aggcagagaa gaatgtcagc 360
 acaactgctg cgagcgggtgc gactatccca agcaaaccgt agccattacc aagcaccga 419

<210> 32816
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-035-Q1-K1-G11

<400> 32816
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 gatatcatca aaacctgcat gaagcaccat tagtagaaat tgtagcccat gttgcaaaag 120
 cttaatgtta ccatgaaggc tgatgacaag gagttgattg gcaaagcttt gatgaagcgt 180
 gttatgcaaa cgtggctacc agccagcact gcacttcttg agatgatgat attccacctt 240
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 gatgtttatg caactgctat cagaaactgt gatccgatg gccctcttat gctgtaatgt 360
 tcaaaaatga ttccaacatc tgacaagggc atgttctttt gtcctttggt cgtgtcttct 420
 catggaaggt tgctactggt atta 444

<210> 32817
 <211> 302
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-G12

<400> 32817
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 gaaaaaataa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaggac agacctaatc taaaaaaatc caaattttac ttcccctttc 180
 ttgcaaccaa ttactttttc ttttggttcc cctaatttaa tttaactggc ctgtatttaa 240
 aaacttttta actggaaaaa ccttaacttt cccaaactaa taaaacttta agcaaatccc 300
 ct 302

<210> 32818
 <211> 262
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-G2

<400> 32818
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 atatatatat gctgtactgc aggccacaca tacatatata atagagtact acagtacatg 120

atatagatgt atacatcgag ttctaaatgc tccacgaagc gggccgatat tattgaccat 180
tcaagcgaaa catttacata gcagacgacc gattctactg cgagaaccat gaaacagaat 240
tttgagcgga atcctgtctc ca 262

<210> 32819
<211> 460
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3068-035-Q1-K1-G4
<400> 32819

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tttgacaact cttacttcaa ggaacttctg agtggtgata aggagggcct tcttcagctc 120
ccaagtgaca aagccctgct gagtgacctt gttttccgcc ctcttgtcga gaaatatgct 180
gcggatgaga aggctttctt tgatgactac aaagaggccc acctcaagct ctccgaactg 240
gggtttgctg atgcttaaata agacctatc ctggagtgat acattctgct gcatgtggtc 300
ttttgcatct ggagtcaatg tgaacaagca gattgtcgta ttgtctttct cgtaataaat 360
ttgtcaatgt tgagccctta ggcttgaatt gtgggacctt ttgntcgttt tcctagactc 420
tgatgctgta tgcaactgaa acgagtaaata ctatgatctt 460

<210> 32820
<211> 430
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3068-035-Q1-K1-G6
<400> 32820

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gacgcgatgc gcagcgtcgg gtccgcgtac gccgccgtcg ccggcgggct cggctgcttt 120
gtggcgtcgg cgatcaacac cgcggtggac gccgcgacgc gggacgatga ggaggggcgg 180
ccgtcgtggc tggcgcagaa catcaacgtg ggcaggttcg actacctgta ctggctgctc 240
gccgtgctca gcacagtcaa cctgctcggt ttctgtcttct ttgccaagcg gtacaagtac 300

agggtcaggg tgcacgtgcc gaccacagtt gctgttgata agcagtagct agccgctagc 360
gccattacaa ggatttgagt ttggatgtgc tgtaactatt gattactggg aataccatan 420
aacatagatc 430

<210> 32821
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-G7

<400> 32821

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tcagtaggag tactattagc gtgctgattc agacctcgag ctcgaggacg tagttattct 120
ataaaaaaaaa cgatgtgtaa tataacaatt gtactaaata tagtaaagaa atcaaaaataa 180
tcttttagatc aatctaagat ttcgattccc agtaaaaaaaaa aaagaaatat aatagaaaaa 240
tatgggacaa aaaataaatc cactcggttt cagacttggg acaaccctaaa atcaccattc 300
cttttggttc gcacaaccaa aaaattattc tgaaggtcta caggaagata aaaaaatagc 360
gaattgtatc aagaactata tac 383

<210> 32822
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-G8

<400> 32822

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tgcgggtcaa tacaggggag attcaaggaa cctcttaagg ggcattaaca aggccttctt 120
ctaaatgcca caagacaaaa ccctgttttag agacctgtt ttactgcctc ctgtggcgaa 180
aaattatgcg aatgagaaag ctttctttta tgactacaaa aaagaccacc tcaaactctt 240
ccaactgtgg tgtgctgatg cttaaatata cactatactg gagtgatata aactgatata 300
tgtaagcttt tgcactctga gtcaatgtga acaaacaca 339

<210> 32823
 <211> 359
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-035-Q1-K1-H10

 <400> 32823

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 cgagaagagc agtcgccatg tctggcatca tccacaagat cgaggagaag ctccacatgg 120
 ggggcgacca caagaaggag gatgagcacc acaagaaggc cgaggagcac cacaagaagg 180
 aggaggggga gcaccacaag aaggacggcg gggagcataa ggaaggcatc gtggagaaga 240
 tcaaggacaa gatcaccggc gagcacggcg acaagtccgg cgaccacaag gaaaagaagg 300
 acaagaaaaa gacgaaggag aagaagaagc acggcgaggg ccacgaccac gaccacgac 359

<210> 32824
 <211> 375
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-035-Q1-K1-H11

 <400> 32824

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 ctgtctctgg ggtatacttt ccccgttcta ttgctaccgc ggttcttatg caatcgatcg 120
 gatcatatag atatcccttc aacacaacat aggtcatcga aaggatctcg gacgactgac 180
 caaagcacga aagccagtta gaaaatggat tcctatttga agagtgccta accgcatgga 240
 taagctcaca ttaaccgcgtc aattttggat ccaattcagg atttttcttg ggaagtttcc 300
 gcaagaaatt ggaataatat cgattcatac agaggagaaa gctctgtatc gatgcaaacg 360
 ctgtacctag aggat 375

<210> 32825
 <211> 465
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-035-Q1-K1-F11

 <400> 32825

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gccgtagatt gacgacgagc aatggaacaa gaggttgccg tacattaggt atggtgttga	120
cgggtggagct acccttgtga cgggtggtga taggttgggt gacaaggggt tctacatcca	180
gccaacgatt ttctcagatg tccaggacgg catgaagatt gctcaggagg agatatttgg	240
gcctgtgcag tcgacacctca agttcaaaga cctcaatgag gttatcaaga gggcaaacgc	300
gagccagtat ggattggccg ccggcgtgtt caccaacagc ctggacacgg ccaacaccct	360
gacgcgcgcg ctcagggccg ggaccgtctg ggtgaactgc gttcgacgtc ttcgatgctt	420
cgattccgtt tgggtgggtac aagatgagcg gcacggggag ggaga	465

<210> 32826
 <211> 157
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-035-Q1-K1-D10

 <400> 32826

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gagcatgtac tctcgacaca aagcgcattc caagatcatt acagagctta aagcgtccga	120
tactctcggt gctacactgc aaacaagtgt gcacac	157

<210> 32827
 <211> 308
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-035-Q1-K1-D11

 <400> 32827

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agggattgtc tagagtattt aaaaatgagc gctactacgg accaaatata ttacgccata	120
caacctctg acaattacat gggcatctaa tcatctacat gggtagaact agagcgtaa	180
gaactagaag tcaactgtttc gagtgaaaat gtactttgtg aagatgtaac ttttttcagg	240
aattgcacca ttgccgtcat caatcccaag agtgcttcat tcttttgtac aaatgcttca	300
atcatata	308

<210> 32828
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-D2

<400> 32828

gccacacgtg cgccacgcg tccgcggata tacaaattgc gcgagtacta gggaaggcag 60
gaacaatagc aggggctggc tacttgagat tagcaggaag acctgccgtg cttactttaa 120
atactctatc ttattcagag aacttcttgt acatgctgga ctctatgggt gacagaacat 180
ataaaccaaa tcctcgactt gctcgagctc tagatattct ttctattctg catgctgaac 240
atgaaatgaa ctgctgcact gctgctgtta ggcaccttgc ttcaagcggg gtggatgtat 300
ttactgatct ttctgggtgg gttggagctc tatatgagcc tctgcatggc ggcgcatacg 360
aggcagtact taaaatgtta aatgacattg gaagcatgga aaatattcca gatttcattg 420
taggagtgaa gaa 433

<210> 32829
<211> 132
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-D4

<400> 32829

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ctggggaact actggggcag cattaaccaa acatgtgacc attcattaaa ctactcacag 120
tacgtcctcc at 132

<210> 32830
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-D5

<400> 32830

cccacgcgtc cgccacgcg tccgcccact cgtccgccca cgcgtccggc cacgcgtccg 60

gcaacgcaaa tctctgttat gctgccaccg gccggcaaag tagtggtaca ctaatataat 120
gctctccggt ttgattggtg gctcttgtgg tgtgtgggag ccacgtaatc tttgcttgga 180
agggaattgc gttgtacaat gatgaaatgg gccgggtaat gcatgggact ctggtcaagt 240
atttcgagtt aaaaaaaaaa aacatccaaa tttaaactaa tgaagaaata aataaaaggc 300
taattccgta aagttcttat caatagggtt acattctgaa ttgagttaat g 351

<210> 32831
<211> 250
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-D6

<400> 32831
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gcacctggga cccacctcc gaccgcgcca aggagctgcg caaggctcgc gcggaggccc 120
aggaggaggc cgaggaggag gtcacggtgg atgagcagtc actcgacaag tgcctcgtcg 180
ggctccccag gggctggacg gctgataggc tcaagtcctt gctccaggat cagggaaatct 240
cgtatgcaac 250

<210> 32832
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-D7

<400> 32832
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tcacctggga ccgcacctcc gaccgcgcac aaggagctgc gcaatgtcgc cgagcaagct 120
gaccaggaga ccaagaagga gtcacggcg gattagcaga tacctagaca tgtgcctcgt 180
acatctcacc atatactgta cgtatgatag gctcaagatc tagctccatg atcagcgaat 240
cacatctgca acaaatacaa aa 262

<210> 32833
<211> 440

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-035-Q1-K1-E10
 <400> 32833
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 tacgactacg tatacagcac catggacaag tcgtgcgacc agctgttcga gacctcgctc 120
 aggggagcgg aggagacgcc tggcctcgtc cacctcacgc acatgacgga cctgcagtcg 180
 gtctaccacc tgcggatcgg cttegactgc gaggcgtcca gaccgtctgc caccagcgcc 240
 atgtggtggt acatgtgggt gctgaggacc gtggcgtggc tgtccatggc gctcgcgtgg 300
 gcctacgggt ccttcgcgtt cgtcgtcgag aggatcaaac tctggaagct gatgatgcaa 360
 acgtgggcac taccaagata caacttccag tacggtctga gctgggagag agaatcgatc 420
 aacggcctca tcgaaagggc 440

<210> 32834
 <211> 433
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-035-Q1-K1-E11
 <400> 32834
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 cgtgagccgg gccgtggaga tccaggccga cgccgggtac gggttacggcg gcgggtacac 120
 cccgacgccg acgccggcca ccccgacccc gaagcccagag aagccccca ccaagggggc 180
 gaagccggac aagccgcccc aggagcaca gccgtccaag gagcacgggc ccaagccgga 240
 gaagccgccc aaggagcaca agccgacgcc gccacgtac accccgagcc ccaaacctac 300
 gccgacgacg tacactccca ctccgacgcc cccaagccg acgccatcca catacactgc 360
 cgaccctacg ccccaaaaaa ctacaccaa aaccactgc cactcctgcg acgtacactt 420
 caagcccaaa acc 433

<210> 32835
 <211> 454
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-E3

<400> 32835

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gaaatcagga gttggattca ataccaaac gttccaggga gcatgctgat caagaacttg 120
aagtagagag aactgcacag gctgggttgg aacaagagtg tgactctgtg ccaattgatt 180
ctgaggaaca cggttgcttg acttcatatg ctcatactga tgatgagcaa gatgaggtga 240
agcagaaagt cacttctgaa acagcagatg ttctacatta tgcagcagac acttttaatg 300
ttaacacaaa ctcatggaaa gaagatattg aagaggatcc aactgaagct gctctaacag 360
ccatacatca aatttgttac gaacctttga cgagcatagt caagttctct ctagatcaca 420
gtgtctccga agaagacaga gagcctgata cgcc 454

<210> 32836

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-E5

<400> 32836

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aaatcatgac gtggattcaa taccaaacg ttccacggag catgctgatc aagaacttga 120
agtatagaga actgcacagg ctgggttggg acaagagtgt gactctgtgc caattgattc 180
tgaggaacac ggttgctga cttcatatgc tcatactgat gatgagcaag atgaggtgaa 240
gcagaaagtc acttctgaaa cagcagatgt tctacattat gcagcagaca cttttaatgt 300
taacacaaac tcatggaaag aagatattga agaggatcca actgaagctg ctctaacagc 360
catacatcaa atttgttacg aacctttgac gagcataatc aagttctctc tagatcacag 420
tgtcttcgaa gaagacagag agcctgata 449

<210> 32837

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-E6

<400> 32837
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gaaatttataa aactcctgac tttctaaagc atccaaattt ccctcccat accttccaat 120
ttataactct tttatagtgc aacctaaact aaattcactt gccacattt tacaactttc 180
tgaccggtaa aacccttaca ttacccaact caatggcctt gcctgacaat ccccatTTTT 240
taacttgcg aaatgccaac acgccctaac tcatcatatt ttccaacaat tccccctcct 300
taatgccc aaatgcccac ccttttaccg gtcattaaac accttatgat cttggtgata 360
catctcaaaa tttaccttta c 381

<210> 32838
<211> 447
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-035-Q1-K1-E7

<400> 32838
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ctccaagccc caaaccttcg acgcccgaagc cgacccacc gacgtacact ctttgcgcca 120
agcctccgac acctaagccg acccgccta cgtacactcc aagccctaag ccaccggcta 180
ccaagcctcc cagcccgaag ccgaccccggt caacgtacac cccttcgcca aagcctccga 240
cacccaagcc gaccccgctg acgtacaccc cttctcccaa gcctccgacg cccaagccga 300
ccccgccgac gtacactcca agcccgaagc ctccacaca cccgacgccc aagccgaccc 360
caccgacgta caccctttt tcaaagcctg cgacgccc aa gccgaccca tcgacgtaca 420
ccccttacc aaagcctgac acacca 447

<210> 32839
<211> 411
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-035-Q1-K1-E8

<400> 32839
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ggtcgtcacg cgcgacggct tcgacttctg gttcatgggc ttcgtcaggt accaggcgctc 420
cctgcaggag ct 432

<210> 32842
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-F10

<400> 32842

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tcgggaactg ttcttatgca tgcagcagcc ataagcattg ctactagggt ttcattgcggg 120
gcgaagcagt tggctctctgc cgctgaacg ccgccggaat ctgcgaggcc tccccgagct 180
gcgtccgtcg tcagataagg cagacgccgg caccgcaatg ccggttcctc ttgctccgta 240
cccagctcct ccggcgccat tcacgccgcc caatggggcc cagagccagc tcgtctgcac 300
cgggtgccgg aacctactca tgtaccacgc tgggtgcgacg tctgtctgct gcgccgtctg 360
cagcaccgtt attagacgtg ccggcttcat gaactgagat ggcgagcta gtgtgcggaa 420
gatgccacac gcttcttatg t 441

<210> 32843
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-C9

<400> 32843

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ttttattact acttcctgca aactaaaagc acattcaacc agaaatatac tgggcctgtc 120
tgggccatca acagtgtgtg ccagaccgg cctattacac tacaggacac cacatgcatg 180
cgggccattc cactgaccaa gcatgttgat gccataaaat cggcgcatgt gatcgctct 240
gagaaagctg caacggcgcc acgtttgtcc ggctaaaagt tcacatgcct ttcaaagtgtg 300
aaccataa taatgccgag cgg 323

<223> Clone ID: LIB3068-035-Q1-K1-B3

<400> 32846

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gaggcctttc gttgtcatca tgcagatcat gagtaacaca ccagatggct ttgcccctcc 120
cttaaagtga gggtagaaca ccatggaatg atgcctgctg tgttgagcac cggagcttcc 180
ggaggcaaaa aaaaaaagga gatcgaatga taccactgtg gtttccagta acttggaatca 240
gtttgtacag tggacgagtg gagttggccg ttgctgtttt tgatgtcgcc atgggttgtgg 300
gtgaactcaa accttaaata gtggtgtgct tagcatcttt cttggcgtgt caaactgtcg 360
ttgtgacttg tgagggatgg gactagttag ttgggttttg tagagttact tggttatcaa 420
tgtgcagaca tatatgtatg ccgcgatgag t 451

<210> 32847

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-B4

<400> 32847

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attacttgcg aaggacttga atatgtagcg ataagcaggc ctctaccaat tatacgtggg 120
cgagcactat ttaaactcaa gatatctcag ctctcttcca aatgtgacaa taagctcttc 180
cgtattaaat tctctacact tcacatgcaa agatattctt ttctggaagc atattccaaa 240
ccgattcgct gtatatctcg aagccgcact gtccgcccct tgggtcctac aaagcgggcg 300
agttctgcaa cagcaaatga aattgacatg ctgagtaatg gccaaagggt tgtagtact 360
gacaaagtaa atagtcgtgg acattcagtg tgtctgcata cgcccatgtt tcccaagata 420
gaagatggaa tgggtggaagt agt 443

<210> 32848

<211> 389

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-035-Q1-K1-B7

<400> 32848

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cctaaaaatat gactgaatcg attcctgata agaaattcat ccttaatatc tcgaatcatg 180
acttataagc atactgaaat tatccattat acttatgatt ctctccaatg actttgcaac 240
gtagatcaat gaacttgtcc ctgaataaat attatatcta caactatggt catttactat 300
cacctaaaat tcatcatcgc tcataatcta acctgtctca taaaattttg acctaaccta 360
cattccatat tactagttaa actgtctat 389

<210> 32849

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-B8

<400> 32849

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cactctcata tgtaacgatc aacactcctc taccaatcat acctttgcga ccactattta 120
atctcaagat atctcaactc tcttccaaat gtgacaataa tctcttccgt attaaattct 180
ctacacttca catgcaaaga tattcttttc tggaatcata ttccaaacct attcactgta 240
tatcttgaac cctcacttta ctcaccttgg gtcctacaaa ctcggtctaa ttattcaaca 300
gcaaatgaaa ttgacatgct caatactgac caatgttttg atagtactga cccagttaat 360
attccctgac attcagtgtg tctgcatagc cccatgtttc cca 403

<210> 32850

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-B9

<400> 32850

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ccttagattg ggtggaaagg ttcacaaact actagtgcac ttcgtcctgc tgaaccaagg 180
aagatttcgg agattcctgc tgctgcacgc tacattacag tatctcatgc tgctgggaag 240
cattctctta ccacgcttgg ttttgatttg aatgttgctt atgaccaatc tctctaggaa 300
gatatccac agagttctgc acatactacc tgctctgaat ctggaaata 349

<210> 32851
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-C1

<400> 32851

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tggggggtcc cttgcgaccg gttctggctg atttctcggg cagctccagc tgaattcaag 120
atgccgctgt gaccacccgc tgcttggttt cttggaggaa ggaaattttg cttcaattgg 180
gcgtcgttga gctagacccc tctccagct cttgatccgg tccatggggc tctgccatgg 240
caagccgacg caaatcccgg aggttgaggc ggaggaggat cccacgtag cctccggcgc 300
gggcgacggc ggggacgggg cgacctcgcc gtcggcgggc gcgcccgcgg cgaagccagg 360
cacgccgaaa cagcccaagt tcccgttcta cctgccgagc cc 402

<210> 32852
<211> 312
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-C10

<400> 32852

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gttcccgctg cggcagcgaa ggcggcggca tcttgagggt tgtatgaacg ccacgaggac 120
gaggacgagg accagggcgg tcgcgtgct gggccccagg gcacgaggag tgcaacgaac 180
aggagaaccg catggaggga gaagaggtag gggagtgtga agagggggtg cggacgtaat 240
gcggcgaggg aagcggctgt ggacgacact gggagagagt ctatccgagt ccgcggattg 300

tggtgcgatc ga

312

<210> 32853
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-C11

<400> 32853

cggacgcgtg ggcagctcat catcacattc gcatacatct cttctagcac gcaaagatcg 60
agctataggt agctctgcaa caagagagaa ggaggactac ctttcgccgg ccggcctaag 120
gaggagtacg tacagaactt gggacatgga aaccgtcgtg ggcgacctca tggcgaccga 180
gctgaggctt ggcctgccgg gcaccgtcga cgactgcagc cagccccaac tggatgaaggc 240
cacgccgccg tcgacgcaa ggggcaagag gcgcgccacc gccgatgccg tggaggaagc 300
cgccggcgcc gaggaggcaa gcaagcgtga cgccgagacg gcgcccccg cagccaaggc 360
gcccggtggtg ggttgggccc ccggtgaagt cgtaccggaa gagctgcttc cagcaggcca 420
gcagcaagca ggcggcagcg gccaaac 447

<210> 32854
<211> 441
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-035-Q1-K1-C12

<400> 32854

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gtggatagca atgaccgtga ccgtgttggt gaagccagag atgagctgca caggatgctg 120
aacgaggatg agctacgtga tgctgtgctg cttgttttcg ccaacaagca agatcttcct 180
aatgccatga atgctgctga gatcactgac aagtttgat tacactccct gcggcagcga 240
cactggtaca tccagagcac ttgtgccaca actggcgagg gtctgtacga aggcttgac 300
tggctgtcca gcaacattgc gagcaaggct tgaatatcaa atgcgaactg actaggagct 360
ccggatgtat caatggaaac ttaagacaga atcgctcta caacctgtta ggtgtcttct 420
accggcacia tatattnttt g 441

<210> 32855
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-C2

<400> 32855

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gaaaaaaaaa aagagaaaaa aaaaaaaaaac aatataaaaa accacaaaca aataaaaacg 120
accatccatc taaaaacccc tactttacgg cccctacat tcaatacact aaccttcatt 180
ttgcccacct aaactagtac actccccac tttccaacc taatcacctt gcaaaacctt 240
cccctttccc cacttattcc ccttgctaaa aatccccctt tttccaactt cccaacagc 300
tccaaagtct gaaccgacag tgcttccac ctttcccca gccttaatgc ccaataaaac 360
cccccttaa acgcaccttt aaacctgcac 390

<210> 32856
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-C5

<400> 32856

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gaggctgacc tacgacgaga tccagagcaa aacgtacatg gaggtgaagg gcacgggcac 120
ggcgaaccag tgcccagcca tcgacggcgg cgtggagtcg ttcccgttca aggccggcaa 180
gtaccagatg aagaagctgt gcttgagacc gacgtccttc accgtcaagg cggagggcat 240
cgccaagaac gccccgccc agttccagaa gaccaagctc atgaccgcc tcacgtacac 300
gctggacgag atcgagggcc cgctcgaggt cggctccgac ggcacgtca agttcgagga 360
gaaggacggc atcgactacg ccgtcgtcac cgtgcagctc ccggggggcg agcgcggtgcc 420
gttcctcttc accgtcaagc a 441

<210> 32857
<211> 445

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-C6

<400> 32857

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 caaagaagaa ggaaacaagc taaccatgat gatgagcgcc aagaagattg ctcatctcgc 120
 caagaaatgg cagaggatgg ccgcgcaagg gaggaagcgc ctcaccttgg gggcggcggc 180
 ggcaaaggaa gtcgacgagt gctgcggttc tgtggcgagc aagggccatt gtgcggtgta 240
 cacggccgac ggggcacggt tcgaggtgcc gctggcctgc cttagcacc ctgtcttcag 300
 ggagctcctg cagatgtcac aggaggagtt cggcttcgct ggcggcgatg gcaactggcag 360
 gatcacgctg gcctgcgacg cggcgggtcat ggagtacgcc atgtgtttgc tcaggagagg 420
 agcctctgcc gagctagagc aggcg 445

<210> 32858
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-C8

<400> 32858

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 gccaggggaa agctagctag ctcacagctg agctgagga agaaagcaag gagagggagc 120
 cagggaggaa ggggaaaaac acgcggagag ggtgagcaag aaagaaccga ggcggatcgc 180
 cttctgttcc tctgcccgc tccgcgagag gaggcactgc tcagggggga agaaagaggt 240
 ggaacaacgc ccggggcaga gcagagatga tgcgggagac gtacatggac gtgctgccgc 300
 cgggtggacca catagccgca cggagcaact ggttcccgc ggcggcgct ctgtggacgg 360
 cggcggagaa caagcagttc gagcgggcgc tcgccgggt cgacctctgc cgcccgact 420
 gggaggaggt ggcgc 435

<210> 32859
 <211> 378
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-B1

<400> 32859

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ggaaacaatc atggggagaac caaacttaca aactcttacc tacttcatta actactacct 120
tatccaacca cctatatctt acttacctta cctccattat ccacattatg gactttgact 180
tcccttacct tacccaattt attcgcttat acactatcac cctttatgat ttcttgaatg 240
acaacatcta gtccacacacc taacaaccat ccaaccatat ccacgacata gaccttcatt 300
ctcaccagac catgtatgct ccattacttc ctctcgcttt gccggctccg cccatgcctg 360
acatatctct tcctacac 378

<210> 32860

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-G5

<400> 32860

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atcgggtcca agggaacagg tgagatggca atcctgtacg cgctggtggc gcgcggcacg 120
gtggtgctgg cggagcacag cgcggcagcc accaacgcgg gcgctatcgc gcgccaggtc 180
ctcgagcgcc ttcccgcagg .cggcgccgac agccacgtct cctacacgca ggaccgctac 240
gtcttccacg ccaagcgcac cgacggcatc accgcgtctt gcatggccga cgacgcctcc 300
agaagacgga ttcccttcgc atttttggag gatattcatg gaaggtttgt caagacatat 360
ggccgggctg cgctaaccgc tcttgcatat gcaatgaatg atgaattctc aagggtcttg 420
agc 423

<210> 32861

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-G6

<400> 32861

ctaggcgaga gcacgcaactg ctggcggcgc ggctaagacc gagagccgcc gcgcacatta 60
 ttgttcgcgc gaggccagcc gccggttgca ttgcatggcg cagctgccgc ccaggatccc 120
 gaccgaggtg caccactggc ccgagggggg ccagcacggc gcggcggcgg cggcgtgggc 180
 ggacgacttc gccgagttcg cggcggcgcg gcggggcgcg caccgcaggt cgctcagcga 240
 ctcggtcgcc ttcgtcgagg tggcgccggc cgacggcggg gccggcgagt tcgacaggct 300
 cgacgacgac cagctcctgt ccatgttccc acccgacgag gccggcggca gcggcggcgg 360
 cggcgggtcg tctgcggccg ggtccgagaa cggcggcagc agcgacagcg a 411

<210> 32862
 <211> 386
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-G7

<400> 32862
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 cgagaagcct gcccctgcga agcaaggggg ctccaatgac cgggatctcg ctcttgcaag 120
 ggtggaaaca gagaacagga actctttgat caaagcttgg gaagagaatg agaagacaaa 180
 agctgacaac aaggctgcta agaaagtatc cgctattctt tcatgggaaa acacaaagaa 240
 agcaaacata gaagctgaac tgaagaagat tgaggaacaa ctggaaaaga agaaggctga 300
 atatgcagag aagatgaaga acaaggttgc aatgatacac aaggaagccg aagagaagcg 360
 agcgatggtg gaggcaaaac gcggtg 386

<210> 32863
 <211> 285
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-G8

<400> 32863
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 cctatatgcc tgatcctgag taacaagggc gtcctacga catagatctt ggtctatcaa 120
 gggagctaac acaaattcac taactctttg atcaacaact tgtgaagaga ataaaacgac 180

accatctcac aactaagttg ctttgaaagt attcgctatt ctttcatgtg acatcacaga 240
gaaagcactc attcaagatg aactgaagaa catttatgaa caact 285

<210> 32864
<211> 393
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-034-Q1-K1-G9

<400> 32864

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gctcctcgcc gatcgatacg atggcgcgtct tctccgacct ccacacgcgc gacggcctca 120
agtcctcga ggctcacctc gccggcaaaa cctatgtgtc tggtgactcc attactaagg 180
atgacattaa ggtcttcgcc gcggtgccgt cgaagcctgg cgctgagttt cctaatagccg 240
cccgtggtg cgagaccgtc tctgcgggtg tagcctcaag attccctggt aaggctgttg 300
gtgtaaactc gcctgcggga tcagctcctg cggcagctgc tcctgcggat gaagctgang 360
atgatgatga ccttgatctt tttggtgatg aaa 393

<210> 32865
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-H10

<400> 32865

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ggcccatgcc accccttagg tctgctggtt cctcgagacc tcaaagtttt attacaagag 120
atgctcctga caggtcaagg agccaacat atgctggcaa atccaccatt tctattgata 180
cagtacagag gactaatgga atcactccat ctactgcagc tctgcctaag gccctgtta 240
tggtgaagc cccgcttaca gttactggat tgctgaactc gttgggtctt gagaagtatg 300
ttgttctttt tcaggctgag gaagtggatt tgtctgcatt gaagcaaatg ggagagagcg 360
acctcaaaga catgggggta ccaat 385

<210> 32866
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-H11

<400> 32866

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cgcacctggt gctgatcctg tgcctccagg ccgctctggt catgggcgtc ttcgccgctt 120
tggctaaaga aaatgccctg gttgagagca aggccatcga catcaaccgg gggcagctca 180
agtgctgcac caactgcaac ttctccttct cggggctcta cacctgcgac gacgtcaaaa 240
aggactgcga ccccgctctgc aagaagtgcg tcgtcgccgt gcacgcctcc tactcgggca 300
acaacaagtt caggtgcacc gacaccttcc tcggcatgtg cggccccaag tgctagatca 360
gagaggaaga acgcgcgctg ctgctagctg ctatagcttc gttctttcgg cggcggcccg 420
tgcatt 425

<210> 32867
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-H12

<400> 32867

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cgtgtacgag aggcacgagg cgaagaagga cccggagcac gcgcagcggc acaagatcga 120
ggagggcgctg gcggcgggtg ctgccctggg cagcggcggc ttcgcgttcc acgagcacca 180
cgacaagaag gaggccaaag acgcggcgga ggacgccggg gaggaggagg agtccggccg 240
ccgcggcgag gggaagaaga agcaccactt cttcggctga tcgggctgct gctcgatcga 300
tctacttgcg tacgtaggct gtcctccagg accagaagga gcatgcatgg agggcgaacg 360
aagtcacggg ggtttgattg cccgtctatg tatatcatgt gtagttactg atgatgtgtg 420
t 421

<210> 32868

<211> 302
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-034-Q1-K1-H3

 <400> 32868

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 agaggctttc ctctcggcg ggtagatctt cctgacttac ccaactacac agatcctaata 120
 gtctctaaca cccttacgtc catctaggcc gtctcttagc atatgtcca gttgctatct 180
 tgcattctat ttacagggt tactgttatt aactctcaca cttgttcttc tttcctatgt 240
 ctcttcaact attacttatg acaaacctat taaatcatct gttactctcg tactataatc 300
 aa 302

<210> 32869
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-034-Q1-K1-H4

 <400> 32869

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 acgggctaata taaggccggt gcatccctct tctagctcgt ttcattatcc atggctgagg 120
 agaagcacca ccaccaccac ctgttccacc acaagaagga cgaggagcag gccgcggccg 180
 gcgggtacgg cgagtcgcc gagtacacgg aggccacggt gacggaggtc gtgtccacgg 240
 gcgagaacga gtacgacgag tacaagaagg aggagaagca gcacaagcac aagcagcacc 300
 tcggcgaggc cggcgccatc gccgcggcg ctttcgcact ctacgagaag cacgaggcga 360
 agaaggaccc ggagcacgcg caccgtcaca agatcganga tgaggtcgcg ggcggcgcgg 420
 ccgtc 425

<210> 32870
 <211> 381
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-034-Q1-K1-H6

<400> 32870

cccactcata ctcacatata ctgatatcct taactgcctc atgagatagg tctagggggg 60

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tgacgttgca atctcttacg acacaatcgt gaaggtgatt cacatcgctt acacattaca 180

ggtacaggag caacctgctt tcgacccaga gtcaatgtga tattacataa aaagatacat 240

catgaatttg actgctgagt gctacactta tactgcacat gtcatgtcat tggacatcgt 300

cggctctaaac taatgcttaa ctagcaagct gttggacctt gaatccgtcg atcccgatag 360

cttgaatgac gatacgctcg a 381

<210> 32871

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-H7

<400> 32871

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aaactgttca gattgcaata tctgcattgc aatcagttct ccaggaagat ttcaaggcca 120

ctgagatcga agttggtggt gtgagaaaag aagaacgtct tttcagagtt ctcaaacag 180

aggagattga ccagcacctg acggcaatta gtgaacggga ctgagctgcc atatgttgga 240

catttgatcc ctacacactg cgccgtgccca ttgtgcttca gcactgccat ttagtttgac 300

atcaaatgaa ctgagtgtac catttcatgt ctaacactga aaacaagctc gttgattgaa 360

tttggcacag tttggttttg cattgctaaa aa 392

<210> 32872

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-H9

<400> 32872

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actccatcgc cggccagtcg ctcgcccattg ccgagctcct ggcgccggat ccctgtgag 180
 ctttctccgt cggccatgga tgccggtgag cttatccctt ggtgccgca gctcgctgta 240
 gagttttaag cacgcttctt ccctgtgctg cagctccctc agcgcttctc ccgtgcttgc 300
 gctcgcccat ggtggctccc tgtgctcggc gctccagctc gtccggccgc ggctcgtcg 360
 aactgctttg ccttccatgg ccgctcaag cttgggaccc tgcttgct 408

<210> 32873
 <211> 320
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-A3

<400> 32873

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 ggatgatgat gggaggccac tgctacccta ctacgtaccc tcctctatgt gtgctggcat 120
 ccgtccccgt tagacgatcg aggcgagaat aacgcatagc tctctgctac cggcctgtct 180
 tctgccgtcc cggccgttta atttactagt gtgttcgtcc tatatgttta gcagcagcag 240
 gtgtattgtg cgggtatgta atggatttgc aactatattg ggtgtaaaac cataataaat 300
 gtgggcatga tatgcaaggt 320

<210> 32874
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-A7

<400> 32874

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 ggctcttgag cttgcatgga tgaacaacat ggtggacttt gccttcccgt acctgttgca 180
 gttcattcgt gaatacacta gcaagggtgga tgatttagtg aaggacaaga tcgagtcgca 240
 gaaggaagaa agagccaagg agaaggagga gaaagacctt gtggctcagc agaacatgta 300
 tgcgagctg cttcctctcg ctttgccggc gccccaatg cctggcatgg gtggctcctc 360

acctccgatg ggtggaatgg gcatgcctcc catgggcggg atgggtatgc cgccgatggg 420
ccctgggtccg atgccagcat tcgg 444

<210> 32875
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-A8

<400> 32875

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tctgcgccgc cgccggtgac tgctgatccg cccgccgccg ccgcgcccgg tgctctgtca 180
cgcaggaggc gacggtatgg cgtcgaggca gcacaatgca cagttccaca aatccaagac 240
gctcgacaac aaatacatgc tcggagatga gataggaag ggggcgtacg gccgcgtata 300
caaggggctt gacctggaga atggcgattt cgtggccatc aaacaggctc cgctggagaa 360
cattccgcag gaggatctca acataataat gcaagagatc gaccttttga aaaatcttaa 420
tcacaaaaat attgtcaagt atctggg 447

<210> 32876
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-G4

<400> 32876

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aataagcaat gtcgacaatt gcgacatccc tcggcctgct aatccgtccg ccaagatcat 120
cagctggtagc gccgtccttt gggctctctca aaccagtagt ggtgactctc ccttgcgctc 180
ctgctgagaa gaagcggcct cgatccatct gttactctgt ggatgccaag gctaacgacc 240
atgccttcaa catctctccc gttgcccttg tgcattccaa catgccgcca acgtcgacgc 300
cgcgatggga gatcaaggaa gatggcaagg aagtcaggct gacattcttc aacttgctcg 360
agggtgctac aacgggcgac ttccaggttg ccgtggagga cgatgtgctc atcatcaaga 420

gcacg

425

<210> 32877
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-E1

<400> 32877

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cagctgtatg ctgattacat gaagagcttc agggagaaca tggcagactt cttggatgct 120
ggtgtcgttg tggacattga ggtgggactt ggccttgctg gcgagatgag gtacccatcg 180
tatccccaga gtcagggatg ggtgttccca ggcgttgag aattcatatg ctatgataag 240
tacctgcaag cagacttcaa agcagcagca gaagaggctg ggcatcctga gtgggatttg 300
cctgatgatg ctgggacgta caatgacact cctgagaaga cccagttctt tgcgataac 360
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<210> 32878
<211> 348
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-034-Q1-K1-E10

<400> 32878

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ttacatgtgg gaggagctat atcaaagcga ctgacggatc ccgaaattat gaaatatatt 120
gaaaaatcta tgagcatgcc angagttaca ccagtatcct gagctgatga agctgcgtga 180
gaacgacata ttccagatgg tgtatttccc ggtgataaat gaagcctgtc gagtccttga 240
ttagggatgc gccgtcaatg cttctgacct agacatcagt tcaatctttg gcatgggggt 300
cccaccttat aggggaggtg tcatgcactg ggcagattcc atcggcgc 348

<210> 32879
<211> 330
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-E2

<400> 32879

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tccacgtgtt gctacgcaca aattcgatgt ataaaggccc ctatattgaa accaagttcc 180

aatgtttttac acgtagttaa acatgaaaac cctgggggaaa cccaccttat ttcccttgta 240

ataaataccc tttaaaacac ttgtttttaa aactaaaaga ccctcaacaa tctcctttcc 300

aaacagtctt ttcaacctgt ttcgcaaatg 330

<210> 32880

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-E4

<400> 32880

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ctggtacacc tgatgcgggt gtgaatacaa cgcgtcgtat accgagttct ctcctaccga 120

ttttcaaggg ccgccttggc gcacagtaca ccgctgcgat gtgcgatagc tgttccagtc 180

gatggaccct acctgcgggt gaaccgactc cagggttggc ggaccgttaa gcataaaaga 240

taactcttcc cgaggcccca gccagcgtat ccatgatttc taacatcgtc agctgcattc 300

acgtgccggc tctggaaatc tcaacgcgac tccctttaag acgacgcgcg ttatcgctct 360

atgtgcacag tttaacctaca tcattaagat ctgctt 396

<210> 32881

<211> 281

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-E8

<400> 32881

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gacggcgagc aagcagcagc tggagggcat caggaaggtg gccaaagctcc aagctgagtg 120
caggaggctg caggccgcgg cacaacggag ggcgtcctcc gtgaacgtcg agctccggcg 180
tcctcgaacc tcggcctgct tcaagtgggt aacggttggc cagcggacct gttcgaacta 240
agggccttgg tccttgtgaa cggacctgac cagttcaaga a 281

<210> 32882
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-E9

<400> 32882

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agggaagag gaaagcgact cctgatcctg aaattatgaa atatattgaa aaatctagga 120
gcatggcagg agttacacca gatcctgagc tgatgaagct aagtgagaaa gacatagtcg 180
agatgggtgtt tttcccgggtg ataaatgaag cctgccgagt ccttgatgag ggtatcgccg 240
tcaaggcttc tgacctagac atcgcttcaa tctttggcat ggggttccca ccttataggg 300
gaggtgtcat gcactgggca gattccatcg gcgcaaagta catccatgga aagttggagg 360
agtggacaaa gcggtatggg ggcttcttca agcctt 396

<210> 32883
<211> 282
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-F1

<400> 32883

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gatgcgatcc aatctaattgc ggagcttgat gatcgcataa ctaaaactac tatatacctt 120
ccactacctc tatgctaaac cagtaattcc atcatataaa gggctcctca tcacatctgg 180
gctccatttt ccatacgatc ctcataatag cctgtccacc ctattaccat gccacttct 240
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<210> 32884

<211> 215
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-034-Q1-K1-F11

 <400> 32884

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 tacctactgc tgaacctaat gcactcttcg cggtccttc aacacataac actactcttc 120
 ccaatgcccc cttctatttc tacacacttt ctaacgtcgt aatctgacga tacatcccaa 180
 atgcggaaat cttaacacct attcctttat catca 215

<210> 32885
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-034-Q1-K1-F2

 <400> 32885

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 gatcaccaac agtgccttcg agccatcttc catgatggcc aagtgcgacc cagcccatgg 180
 caagtacatg gcctgctgcc tcatgtaccg tggatgatgt gtccccaagg atgtgaatgc 240
 tgctgtggcc accatcaaga ccaaacgcac catccagttc gtggattggt gcccgactgg 300
 cttcaagtgc ggcataact accagcctcc tagcgttgtg cctgggtggcg acctggccaa 360
 ggtgcagcgt gccgtgtgca tgatctncaa ctnaccagt gttgtggagg tgttctcccg 420
 catcg 425

<210> 32886
 <211> 411
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-034-Q1-K1-F3

 <400> 32886

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atcatctctg ctagtatagc aagtgatatg gatcttgctt ctgcttactc gcatgagttg 180
ccacgatatg gtcttgaagt tgggtctgacc aactatgcag ctgcctactg cactggcctt 240
ctgttggctc gccgtgtgct caagaccctg ggttttagata aggaatatga gggcaatgtt 300
gatgccactg gtgatgattt ctctgttgag ccagctgatg agaggaggcc tttgcgtgct 360
ctctaggatg ttggccttat taggactaca actgggaacc gtgtcttggt g 411

<210> 32887
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-F4

<400> 32887

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ccgctcctc cgcttgcgc ccaccctcg cctcgcgcgc cccttcgctg caaagggtccg 120
tgctctcgg ccgcaggaac cggagcttcc gtcggaggac gacaacgact tcgccggcgg 180
cgagctcacc gccccaccg agggcatcgg caagccgctc gccgaggtgc tcaaagagct 240
cgggaagagg gttccggact cccttgtaaa gaccgcgctc gagaataatg gcttcgctat 300
caagtacatc ccatggcaca ttgtgaacaa aattctcaac atacatgctc cagagtggctc 360
gggtgaggta cgcagcattg tttactcatt tgacgggaaa acagtatctg gtgtctatcg 420
agtgactc 428

<210> 32888
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-F6

<400> 32888

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gggacactta gaatcggggg gcgaaccaag atcagacat cttgcgattc gggcgggtctc 120
gccgtccgaa ttgttgtctg gagaggcggt ctcttggtgact gaccggtcct aagctctgtg 180

gaaaggtacg cctgcgacgc ttagtgcccc gtctgcccc gaccctgtct ctccacgatg 240
 cgccgtcaac tagtcaggtc gtttgcgaaat gcaccctaaa tcatgcgggc aactctgtcc 300
 atggcttaat acatgc 316

<210> 32889
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-G1

<400> 32889

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 accccttcac cagggcggtg gagttgatgt gggagacgtc ggccgcgacg ccgggggtgc 180
 cggcgatatc gtagagggag agggaggaaa cgagcgggtt gagcttcatg aggagcgaga 240
 gcggctgccc gatgccaccc gccgcgcccc ggatggccac cttgcgctcc ggattggccg 300
 aggacgcgta gccgcggctg cggcggatga gctcgccgt ggacttcagc agcgacagcc 360
 tcatggcggc ggctgggtcg gggatcactc gctcgggcgt gtctcgctgt ggattggtgg 420
 ggggagc 427

<210> 32890
 <211> 398
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-034-Q1-K1-G10

<400> 32890

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 cagccttctg atcgtcaccc atggccactg ccgaggtcca gaccccgacc gtcgtggcga 180
 ccgaggaagc gccggtggtg gagaccccg ctcgcccgc cgctcggtccc gaggaggctg 240
 cccccgccgc cgaggccaag gtggaagagc cagctgcccc ggccggagacc gagccagctg 300

ccgncgctga gcccgaggcg gccccctgg cggcggagga agagacgcca aaggaggaag 360
agacggcaaa ggaggcggag ccggagccgg agccccgcg 398

<210> 32891
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-D8

<400> 32891

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ggggacaaat atacaaggcg gggacggact cccgtcctga cggcgccttg cttccggctc 120
gtgcctgcga ggccttgctt tttatccaag gggagggttcg ttgaatcgat tgccaccac 180
tttacaactt cttgaccggg aaaacccttg gtttaccact cttactcgct tgctaccact 240
tacccttctt cctaacgggc tttcacacaa tctggctcga gccaaagtca cttccctcct 300
ttttccccgc ttatttcgcc aatggcactc cctttgctgc ggttccttta gatcggagac 360
tggg 364

<210> 32892
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-G12

<400> 32892

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gcgatctaga aagaacgatt cttcttcgaa gcatgaacca acccgcacct gccctcaaag 120
cagatacgaa tcacggaaac tttgcctctt ctgaagcgca gaaccagaaa acccacggcc 180
tgttgcttga ttagaaaaag gagatccacg gcctgtgagt aactacgcca tgttacgaat 240
cacagcctga cttgctctag atgaaagcat aggtagtac gacctattgt tttcttctca 300
gcggacccaa tgagtaacta cgccatgtta cgaataaaag cgagggaaaa tcggatgagc 360
aacttttgca gctatatgaa atgcactttg gaaaatcagg tcttgaggac gaaaaac 417

<210> 32893

<211> 180
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-B6

<400> 32893

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gcatgcatta ttacttagag aacacaacta tatacctaca tctcatatta accatgcgca 120
tgtattactt tactacactc atatccatca atcaaaaata aatcaaatca aactatactc 180

<210> 32894
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-B7

<400> 32894

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ctaggcttcg caagtgcctc atcgttgect agtctcaagt tatgtcccct tcattttctca 120
agatacgtgt ggcagatttg catggtacgg ttcatattatc aaattatgcc caccctctct 180
ttgtatgttg tggctccatg tgcgagcacg ctgtctgtcg tgacacctgg ttcgtcagat 240
gttttgtcaa acttgcttgg cttgattggg tgtacttgta cctgtaagag ctgatagtta 300
tatgaatggc ttggac 316

<210> 32895
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-B8

<400> 32895

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gtcacggtgc gcgacggcga gccgctcacc gtcgtgtcca ggtacagcag cgaccggcgc 120
cacacgggcg tcatgggcct cttctacatc ctcgtggccg accacgcccg gcagctgccg 180
ccgcaggagg gcctgtgctt cagcttcccg gtcccatggt gcctaccgtc atggctgtcg 240

agcaacctgt gagatctttt ggtgttgaaa gctggtgcta tgttctaatt agctgcttgg 300
 ttaggggttcg gttcggggct ggtgatggta gggcaaatta agcaaggaag gccgcgtggg 360
 tccttgcggtt actcatacag tagtagtaat gtaaaaatat agaagcagcg gtcagtctac 420
 tc 422

<210> 32896
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-C1

<400> 32896

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 caagttatct tgcaagaagc gcctggccaa acatgtgttg gatgtgacag gtgttacgat 120
 tgatccaact agccttttcg atatacagat taagcgcata catgagtaca agagacagct 180
 cctaaacata ttgggagctg ttacagata caaaaaatta aagggaatga gtgcagaaga 240
 gaagcagaag gtcacaccgc gcaactgtcat gataggaggg aaagcgtttg caacatacac 300
 taatgccaaa agaatagtga aattggtgaa tgatgttggg gctgttgtga acaatgatcc 360
 cgaagttaac aaatatctga aggttgtctt tatcccaaata tacaatgtat cagtggctga 420
 agtgcttatt cctg 434

<210> 32897
 <211> 361
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-C10

<400> 32897

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 ctctctcagc ccgagatccc tccccaccga gatccccgcg cgccatgggtg tcgtgacggc 180
 ggcggaggcg gcgtcatgga ggcgggagccc aagtcccccg acgaccgccc tgagcccgct 240
 gcggcgggcg cgacgccgca gccgctggag tggcggtttg cgcaggtctt tggcgagcgc 300

gccgcgggag aagatgtgca agatggtaat aaattcaacc ggccgctggc ctcttcggat 360
c 361

<210> 32898
<211> 325
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-034-Q1-K1-C11

<400> 32898

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aggtccagga caccctccac gcacgcactg atggaacccc tgggtgttcgt gctgctcttg 120
gtggccatgc cactcagagg atcagatggc gcgtggtgcg tgtgccgacc ggacgtgtcc 180
gatgcggcgc tgcagaagac gttggactac gcgtgcgggc acggcgcgga ctgcgccgnc 240
gtgctcccga ccggggccgtg ctacagcccc accacggtgc gcgcgcactg ctcctacgcc 300
gtcaacagct actttcagca gaaca 325

<210> 32899
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-C12

<400> 32899

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cgtccactgg gcagtgtcc acagggtcat atccgattcc gatccctaag acctcagccg 120
ctgcggcatc cacggtcaac tcaagcgctg gcaactggca agggcagatg atctgtgtat 180
agcactcgct accttctctt gatttcccc tcaggtcgct gaccaagggc cctgtccgcc 240
atggatgcgg agcgaagctc tgcacgcagc gccacacctt ttgggtccgcc gtgcgatcgc 300
caccgctaga cgccacgcct gcggtgcctt cccggctgaa tcgcctattg cctaggaggt 360
gtaacgcctg ctgtcggcgc cagactcccc cgaggtagcc gcgagacac 409

<210> 32900
<211> 432

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-034-Q1-K1-C2

 <400> 32900

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 ttgatccaac tagccttttc gatatacaga ttaagcgcac acatgagtac aagagacagc 180
 ttctaaacat attgggagct tggttacagat acaaaaaatt aaagggaatg agtgcagaag 240
 agaagcagaa ggtcacaccg agcactgtca tgataggagg gaaagcgttt gcaacataca 300
 ctaatgccaa aagaatagtg aaattggtga atgatgttgg tgctgttgtg aacaatgatc 360
 ccgaagttaa caaatatctg aaagttgtct ttatcccaaa ttacaatgta tcagtggctg 420
 aagtgcttat tc 432

<210> 32901
 <211> 411
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-034-Q1-K1-C3

 <400> 32901

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 gccggccgcg aagagcgcaa tcaagcaaga caagatggtg aagctcgctt tcggaagcgt 120
 cggcgactcc ttcagcgcca cctccatcaa ggcctacgtg gccgagttca tcgccaccct 180
 cctcttcgtc ttcgcccggcg tcggttcgcg catcgctac gggcaactga cgaatggcgg 240
 cgcgctggac ccggcggggc tgggtggcgat cgcgatcgcg cacgcgctgg cgctgttcgt 300
 gggcggtgcc gtcgcgggcg acatctcggg cggccacctg aaccgggccg tgacgttcgg 360
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<210> 32902
 <211> 335
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-034-Q1-K1-C4

<400> 32902

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ttcttcatca gtaacgcgcc aacaatggga tggctggaca ggcaagccat ctgctccgtg 180

gtccttgctt tctacgggac cgtctacagc ctggactacg accagctcgg cgagctcggc 240

aacgggctgc gcgattcccg ttgggcgatc atcagggtcg agaggcccgga cgaggcgcag 300

aacctgtctc aagatctcga cgacgcctgc aggga 335

<210> 32903

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-C5

<400> 32903

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caactgatga aattagaaaa gaagaggatc ctgttcacat cattcaagca tcagagaaag 120

agatcgcaga tgaaatagaa gaaagtaaag aaatacatga agacaatgct atttgatcatg 180

ataaattaca gacaaattct gaaaaggaag agtcaccctc aaccgcattc caatgaacca 240

tacaatgtgg atgctaaaat tgatgataca acatctctat gcgaagaaat aatccatgac 300

aatacaagta taaatcctag agaaattgaa gagataggag aaaacaaagg accagacttc 360

acttctgaac cttctgtaga atcatccata cagaacaat 399

<210> 32904

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<212> DNA

<213> Zea mays

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<400> 32904

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caactgatga aatgggagaa gaagaggatc ctgttcacat cattcaagca tcagagaaag 120

agatcgcaga tgaaatagaa gaaagtaaag aaatacatga agacaatgct atttgatcatg 180

ataaattaca gacaaattct gaaaaggaag agtcacctca accgcattcc aatgaaccat 240
acaatgtgga tgctaaaatt gatgatacaa catctctatg cgaagaaata atccatgaca 300
atacaagtat aaatcctaga gaaattgaag agataggaga aaacaaagga ccagacttca 360
cttgtgaacc ttctgtagaa tcatccatac agaacaatgt tgaagactca agcagtcac 420
ac 422

<210> 32905
<211> 231
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-C7

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catgcacact cacctattcg tcatgatcta ttacatacta atcatactaa ctaataccca 180
cctgttcac actacattta tctcttcaat gagcatactt taatacacca t 231

<210> 32906
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-C8

<400> 32906
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acatcattca cccatcacag aatattatcc catatcacac ccaccatagt atatataac 180
atgcatacac ccctcttcgt catcattaat tactaacaaa ccctctacat cactattcac 240
ctaccaccta ttccaactca ccatacaatt tcgtactac cactgatcat tcatcttctt 300
tattctaacc tacaatccac gacaacacac ctctaaatcc tatatcacc tcatacataa 360
tataaacac cctaccatac ttcattctc atcctt 396

<210> 32907
 <211> 351
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-C9

<400> 32907

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cttcaacgtc cgcggaacca gctgcagcgg ccggccgagt gcccgccagc gccgcggaag 180
ccggtgtggg cgctccgct gccttcgacg cccgccaaca agcgcagcag gccgtctccg 240
ccctcctccg cggcgccggc tcgcccgggc ttcttccccg tcgcgcgacc tcaccaccgt 300
gttctgtctc ctgccgcca agaagcggat ccgctgggtg tgaccctggc g 351
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<210> 32908
 <211> 158
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-D10

<400> 32908

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gtacactggg gaactcgctg cgctctttga gtctactg 158
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<210> 32909
 <211> 188
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-D2

<400> 32909

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cacgacttct acgttcataa cggtcgtttt cttaactcgg tgtcccataa ttattctcta 120
tgctctaaca catcattctc ccttaccttc aaactgtcct agcatatacc tacgcatcac 180
aactctct 188
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<210> 32910
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-D3

<400> 32910

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atcgtctccg ctttggatga atggattcaa acccatcgtc gtttgctttt gtcctcggcc 120
acgttcaatt aatgcttgtg tatgcatgta tgtgccataa tgatgtgccg ttgccctggt 180
ccattcattt cccttttttt tgggggtgaa atagatgtaa agatctcgtc ttgcctgccg 240
tactcgcgct gtgttgggaa aaatttggtt ttcgttccaa gtttgttaag tttatgcatg 300
gatttcttgg ctcctt 316

<210> 32911
<211> 288
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-D6

<400> 32911

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agttcgtttt tgcagggtac gctaccgatt ttctcttgtg tcaggcataa aaaacggttg 120
gaccgtctgc tagtattccc tgctgtttgg tgttatcgta tcagaagacg tctgtagatg 180
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<210> 32912
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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-B5

<400> 32912

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 <211> 423
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 32915

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acctcaagcg ctccggcaag atggagctcc ctgagtgggt tgacattgtg aagactgcga 180
ggttcaagga gcttcctcct tatgatcctg actggtacta catcagggtc gcatccattg 240
caaggaagat ctacctaaag caaggcatcg gtgtgggtgg ctctcagaag atctacgggtg 300
gccgccagag gaatggctcc cgcccaccac acttctgcan gagcagtggg gctgtttgcac 360
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gcc 423
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<210> 32916
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 <212> DNA
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<223> Clone ID: LIB3068-033-Q1-K1-H10

<400> 32916

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ccctgaggat gaggctgaag aagatggtgc taacatcgat ctggactcac aaaggaaagg 240
aaaatgtggt gttctgaata catacaccag acaaaccata ttacttcctg taattggatt 300
agttgacccc gataagctaa agcctgacga tttagatgca gttaacaaag acagctactt 360
gatactagat acattgcctt cagagtatga ctcacggatt aaggcaatgg aagtagatga 420
gaaacctact gaagattaca atgaca 446
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<211> 368
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-033-Q1-K1-H11

 <400> 32917

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 tcgatctgga ctcaaaagg aaaggaaaag gtgttggtct taatacattc accagacaaa 180
 ccatgttcct tcctgtaatt gagttagttg accccgataa gctaaagcct ggcgatttaa 240
 taggagttaa caaagacagc tacttaatac tagatacatt gacttcagag tatgactcac 300
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 ttgagaaa 368

<210> 32918
 <211> 227
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-033-Q1-K1-H2

 <400> 32918

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 cctcaagcgc tccgagcaga tcgacctccc gtctagctgg cagacatgac tgaaaactcg 180
 ttcagttcaa ggagcttact ccgtatgac ctgactgcta ctacatc 227

<210> 32919
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 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-033-Q1-K1-H8

 <400> 32919

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aactctgatt tactt

135

<210> 32920
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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-A2

<400> 32920

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aaaggatgag ctgccccgcc atggcacagc tctctccaa taccctgtac tacaagcgat 180
tcttcccata ttacgccttc aatgtgctcg gtgggcttga cagcgagggg aaaggatgag 240
ttttcaccta tgatgcagta ggttcctatg agagaaccgg ttacagtgtc caaggaacgg 300
gatctacttt gatcatgccg gtcttgaca atcaactaaa atcaccaagt cctctattac 360
tcctgtcag ggatgctgtc acaccattgt cggagtcaga ggccatcgat ctagttaaag 420
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<210> 32921
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-A3

<400> 32921

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gctttcaagg tgagggtgag gctctgcaga agagcgtagc tgccagagaa ttgctgtacc 120
aacaccagca taataaaagg atgagctgcc ccgcatggc acagctcctc tccaataccc 180
tgtactacaa gcgattcttc ccatattacg ccttcaatgt gtcggtggg cttgacagcg 240
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gtgctcaggg aacgggatct actttgatca tgccaatcct ggacaatcaa ctaaaatcac 360
caagtcctct attactccct gtcagggatg ctgtcacacc attgtcggag tcagaagcca 420
tcgatct 427

<210> 32922
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-A7

<400> 32922

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ctctaacatc actataataa aaataaccta tctcactaca atcttaaaac atctcataca 180
cacctatfff caactaaaac aattccaaca ctttccacat acttctttac aattatacga 240
tgattcccca tctatagatc aaaaaacaac ttctctatca acacttatct acctcacacc 300
aaatatccct tttgtaacat tactaacacc tctatcttcc cactc 345

<210> 32923
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-A8

<400> 32923

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gcgtacaaga tcctggttat ggatccgccc tgtatctcca tcctctcgcc tgtgctcaag 180
ctcggcgacc ttccgccacca aggtgtcacc ctcacccctg ccatcgatcg tccgcggcag 240
gcggtgcccg atgcgccggc cgtctacttc gtccggccca ccctcgggaa cgtggaccga 300
gtagcggccg acgccgccgc ggggctctac gggctcttcc acgtcaactt ctccaccttc 360
gttccgcgac ccctgc 376

<210> 32924
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-A9

<400> 32924

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tagccgccgc cggggctcat ctcacatgcg tcgagaagac gcctgctcct cgccgatcga 120

tacgatggcc gtcttctccg acctccacac cgtcgacggc ctcaagtccc tcgaggcgtc 180

acctcgacag caaaacctat gtgtctggcg actccattac taaggatgac atttaggtct 240

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ccgtttctgc agctgtagcc tca 323

<210> 32925

<211> 398

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 32925

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ccgtggtggc cgcgcactcc aaggccacct acgacgagca gtgggcggcc cacaagagca 180

gcagcaagct gatggtgatc gacttctcgg cgtcctggcg cgggccctgc cgcttcacgc 240

agccggcctt caaggagctg gcctcccgct tcaccgatgc catcttcacg aaggctcgacg 300

tcgacgagct cgcggaggct gcaaggacat ggaaggtaga ggcgatgcca acgttcgtgc 360

tggtaagga tgggaaggag gtangccgtg tgattggg 398

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-B11

<400> 32926

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atctttatcc ccaggcgctt gacacctaag cctaccccgct ctacgttcac tccaagcctc 120

aaacctacga cgcccaagcc tacctcacac gacgtacact tattcccaca agtcttctac 180

acctaagccg acccatccta cgtacactcc aaaccctaag ccaccggcta ccaagcctac 240
 cagctcaaaa ccgaccccggt caacgtacac cccttcctca aacccttcga cactcaagcc 300
 gacctacacg acgtacact 319

<210> 32927
 <211> 445
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-034-Q1-K1-B12
 <400> 32927

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 aagaatacgt acttgttggt tgggtgccag tccatgacct actgctgcgc taacttcctt 120
 gatgacaagg gtgccagggc cattgtcaaa gccttccac acataaaatg cactgtgctg 180
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 cggaaggaca gcgggaaagt tataatcggg gatattatga ttgaccactc tgggcttatg 420
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<210> 32928
 <211> 303
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-034-Q1-K1-B3
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 tcttgcttgc ggtctgatcc aatgacacct tccattgggg cgcgaacacg ctatcgagcg 120
 tctaagcaat cagctagctg agtcacatg cgctcacgcy taatcagtct tagacgcgtt 180
 cagacataat ccagctcacg atagctatgc gccactggat taaaaacaa tcgcatgtc 240
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 taa 303

<210> 32929
<211> 487
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-033-Q1-K1-G7

<400> 32929

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ctgtggggttt tggttccact accgagtatt tctgggttct cgttgagcct catcgtgtag 120
gacagtcctg nncgttatct tgttaaccag agtgtgctcg cctcctagcc aaaccttccc 180
cactctgacc aatgtnnctt ccgcctcggg natcgccccg gcgtaggcct ggnngccttg 240
gagccaaaag ggagggtgtc ggtgccccgc tttccgaacc tcacgganna taagtaaaat 300
aacccgtaa aagtanngtg gtatttcact tttgcgccg gagggctccn ncacttatcc 360
tacannctc tcaaggatcat ttcacanaag tcggacttag agtcnaagct caacaggggt 420
nctttctttc cccgcttgga ttccgccaaa agcccggtcc cctttggctt gtggttttcc 480
gctggat 487

<210> 32930
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-E5

<400> 32930

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tacaatttag aagggtgaagg ccatggtaaa taacctggct gctcaaacac agtatcacgg 120
ctcgctgaaa ccctacagca cactcccaaa ttgctagcat tgcattctaa cttatactca 180
gctagtcatc atacagcaaa catgcatctt aatcccactt tctatcaaat caatcgctat 240
caccaatatt gtgaatcaac agatcatgta gcactaagct atacatctat gatagcaaaag 300
ccattactca gcacaaactt acatttcaca ctacaatcta cacccatctt 350

<210> 32931

<211> 450
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-033-Q1-K1-E7

 <400> 32931

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 tcacagtctt cggcggcaag gcagtgaacg tgccgtcgtc tctcttcggc gaggcccgcg 120
 tgacgatgcg caagacggcg gcgaaggcaa agccggcggc gagctccggc agcccgtggt 180
 acggccccga ccgctgtctc tacctggggc cgctgtccgg cgcgccctcg agctacctga 240
 caggcgagtt cccgggcgac tacggctggg acaccgcggg gctgtcggcg gaccgggaga 300
 cgttcgtcaa gaaccggtag ctggaggtca tacactcccg ctggggccatg ctggacgcgt 360
 tgggctgcgt gttcccggag ctgctcgccc gcaacggcgt caagttcggc aaggccgtgt 420
 ggttcaaggc cgtgtcgcag atcttcagcg 450

<210> 32932
 <211> 409
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-033-Q1-K1-E8

 <400> 32932

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 tcatgttgct cgattcctaa ggcgtaattt tacacactct tctttataca ggaagtactt 120
 agaggaccct tgcctatggg tagagacaaa caactacta ctcagcctac tttgttcgaa 180
 tgctgaaatc accctggggg ttctcatgat catctcgctt ttctcgtcga gacgcaatat 240
 aatccagaca tttatgtact ttcatctttt gaagttgatg taccattctc ctgtgacatc 300
 tggttaccac cagagcgtgt gggcaagaat aggccgggct gtaaaccggt acatntaccg 360
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 <211> 458
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 32933

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ggatggcaag actgtccaag aagcccatga aaaactaaag attggtaatg aagaaaaggt 120
tcatgtgtat tatgctcgag gagaggatga tccaaatttc tttcgcagat gctactggct 180
acttgacaaa gagttggagc gcattgtcct cgtgcattat cgtcaaacaat ctgaggaaaag 240
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tcattacacc tcctcaacag attcagcctc tgctcatact gagctatctt cttctgctgc 360
tgctgcacca gaagatatca actcaaattg tgggtgngcg gtttctagtg ggtatacttc 420
tgtatcttct ttgggtgagt ttgcagaaac cgacaatc 458

<210> 32934
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-F3

<400> 32934

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aaggtcgcag tatcagatga ggaggcacca gatcgatctg cccttaacaa tgcttggaag 180
tcatggatgg aagaacacat agcggccacg ggcaaggcgc caccaggga cgttgcagga 240
aaccacacct gggttggtgg tgccccccag cgggtccccg acctgctct gacgcctgga 300
cgccacgtcc agctgacggt tccgctggag cagctgatag accggctggt gaaggagaac 360
aggatggtgg ccttcatcaa aggatcaagg agcgttccc agtgcgggtt ctcgc 415

<210> 32935
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-F5

<400> 32935

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ttcatgacat catgcaagaa ctcgaccaac attgattctg tcattgactg gctgggtgaag 180
aactcgaaaa agaagaattg aacttaaate tgtactagct attaaagcgc acgccaatct 240
ctctatTTTT gcatgtcgca tagcattgga gctgtaaatt atgcaagagg tattaatcag 300
ggatgttgtg ttcataatTT tgttaacctg gtttagcagt atgttggtgg acagcgtctg 360
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<210> 32936

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-F6

<400> 32936

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actcccatct actcaccctt aattttacaac ctcttaccta tcatttccac cgtcgctccc 180
catcaaaacc cccttggttac ccattctact ttacccgact cgcttaatca tttccacccc 240
tactcttata tctcttctaa cccttccacc atcctttctc accactacta cactctctat 300
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<210> 32937

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-F7

<400> 32937

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tttacaaggg ccgacggagg cgcaccggac accgcgcgat gtgcggtgct cttccggccg 120

atggaacata gctccatctg aaccgattcc aggggttggcg gaccgttaat cagaatagat 180
aactcttacc gagggccccg cctgcatctc cggacttcct aacgtcggcg tctgccgcca 240
cgtactggct agtgaaatct taaccgatt cccttttagga tgacgctcgt gatcgcgcta 300
tctgatgggt ttccccctta ccttaggatac ggcttaccca tgtgcaagtg ccgtgcacat 360
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tatct 425

<210> 32938
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-F8

<400> 32938

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aaaaattata aaaaaaaaaa acgcaaacaa aaatataaaa ataaaaaaaaa aaaaaaaaaa 120
aaaaaaataa aaaaaaacaa tataaaccat tattaattat aatataaccg ttataagac 180
taaacaaact acagtgaagc ctctaactta aacagacaag ataaatataa atgagactaa 240
aatataaaac ttaaaaatta ataaaaacat ctattaccaa aataactaca cacgatacat 300
cacaatatga tgaactcaca ct 322

<210> 32939
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-F9

<400> 32939

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tacagcaaac tattagcttc tcttcaaact ttcagatgca catataattt tgagataagg 180
ttgacatctg ttcaagctga gccgtttaag aaaattattt tgaaggcaat cagtcatctc 240
acagaggaag tgcagaatgc cagagctttg gtagatgggc aactgttttc agaagagatg 300

aacataagta cagaggaccc acaccaagtt gattttcttg tgccattcaa gaatgctgtg 360
cctgttgaag aatgcagttt agagggagtt gctgggctca ttcgctttat tggatctgtc 420
agcgccttgg catatttagg ccctaaagaa tctatttcag aa 462

<210> 32940
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-G10

<400> 32940

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ctatgctagt caactaacat gacaacatgc tattcgtaca gtgcatttgc aactagcata 180
agttattgta aaagtcgctt atatcataag atatgccgca ttacgagcca ttgctaaaag 240
tgatgtacag ctaatatgta tactccatat atcacctatg cagcatcatg tatgtaaacc 300
tcctaaacaa agacatctgc aagatataat tataccgcat ctacataaac ttcgacatga 360

<210> 32941
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-G12

<400> 32941

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gtgattttga cttcgaaccc tgcggctact ccatgaatgc aatccatggc tctgcgttct 120
ccacgatcca tgtgacgcct gaggatgggt tcagctacgc cagttatgag gttatgggct 180
tggatgccac tgccctgtct tacggtgacc ttgtcaagag ggtccttggg tgcttctgcc 240
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gaaaggaact tgggtgcggag gcttatgact gcaacaacat ggtcgaacat gagctgcctg 360
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ccaaatccgg tcttcgctgc ttt 443

<210> 32942
 <211> 129
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-033-Q1-K1-G2

 <400> 32942

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 aaaaattaaa aaataaaaaa aggtaaaaaa aataaaaaaa tactatacaa ataaaaaaag 120
 cgtcgtcct 129

<210> 32943
 <211> 337
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-033-Q1-K1-G3

 <400> 32943

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 gaacattgta aaatttcaaa cgggtctaaac aaaccagat accatacaca ttcataccac 120
 ttcatcactc tacaatatca acacttacct ccccttacat tctaccactt tacacaactt 180
 caaaactacc aaaacccaat ccattcccaa cttatttcca actatataac tcatacaacc 240
 ttacactcac caaatttctt agacttccaa accaccaca tttatccaca taaatatatc 300
 ccgaatagca catgacaaac tccctttaac aacactt 337

<210> 32944
 <211> 352
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-033-Q1-K1-E4

 <400> 32944

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 gccgcggcct accaccagta cgtgctgagg gccagcgcca ccaagctcgg gtcctaccgg 120
 agcaacgcct aagttccgcc cggacgcgcc aggagctggg caccgttccg attctgttcc 180

tccacatgac gccctgttct gtttccgtgt ggccaggact ccgcttgctt cctgctgttt 240
tctacttcgg accaaagtgt gacatatctt tgctttctgt atatgtatgt aggaatgcat 300
catgtaagga gaatttggaa tacaattgtg tgagttttta tccgatcaca aa 352

<210> 32945
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-C3

<400> 32945

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cggcctgatg ggcgcgggcc acgactacta cgagcgcggc aacctggaca tcttcagcgg 120
ccggggcccc tgcattgagcc aggcgccttg cgccatgaac ctcacctccg acggcaccgg 180
cgcgccaccac ggctggtact gcaactacct cgaggccacg gtcacggggc cccacctcgg 240
gtgcgcgcag cagctcttca ccgtcgagca gtggctcgcc accgacgcgt cgccctaccg 300
cctgtacgcg gtcgtcgaca agtgcaagac gaagcggcag gagccgcgac gtcgcccggc 360
cggcgaggcc gatgccaccg tgaccgcgct ctaggtacga ccagtagtaa atcatcgaca 420
gaggctagc 429

<210> 32946
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-C4

<400> 32946

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caatctgacc accactggac agtgcaactgt actctacagc aacgacagaa aagtgagcag 120
cacacagcag cagctgctgc catgcacgct tggagatctc tcctaccgag cttcgtgctc 180
gccgtgctgg ccgctcaagc cttgctagct gtggctccaat ccaagaccgg ccccgaggag 240
catgcgagcc aagcatgtga cgacgtgaac aagccctact gcgtgcccgt gatagaccgg 300
cgctcgctcc cagcgaccgg cggctggcac ggcactcctc ccgtgacgcc attgcacgga 360

<210> 32947
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-C5

<400> 32947

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atatacgatt gatcatgaag tagaatgtgg gaaactaatt actctcttca gtgctccgga 120
ctaccacag tttcaggctt cagaggagcg atacaacaat cgtggagcat atattgtcct 180
tagtccacct gattttgcta cccctgtttt ccatagcttc ggagctgtaa agcctcgacc 240
tgcgggccat ccgttctatg attttgaaca agtgatcgac tcagatgaag aattggattt 300
aatcgccatg gacagcggca cgtcgagcct gtcatgacga ctcgccatgt accttttgca 360
cttagggttg tatttattat tatcgctcca attgttgcca tggaagcgtg gcatcaaggt 420
tttttgctgt cgttgttgta agctaatag 448

<210> 32948
<211> 81
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-C7

<400> 32948

tgcgccacac acacgtctac acgctcaggt gtttctacac aaactcaaaa acaaggctaa 60
cggaccgact atctacaaca a 81

<210> 32949
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-C8

<400> 32949

cccgcgcgtc cgcccacgcg tccgcccact cgtccgcca cgcgtccgcg gaggcgtgtg 60

caagcacacc accactccac agtgcacttc actctacagc aacgacagaa aagtgagcag 120
 cagacagcag cagctgctgc catggaggcg tggagatctc tcctcgcgag ctctgtgctc 180
 gccgtgctgg ccgcgcaggc cttggtggct gtggtcgagt ccaggaccgg ccccgaggag 240
 caggcgagcc aagcaggtga cgacgtgaag aagccggact gcgtgccggg gatagaccgc 300
 cgctcgttcc cggggaccgg cggcggccac ggcatacagc ccgtgacgcc atcgacagga 360
 ggctccagct ccccgacgcc gtcccacggc ggctgcggcg ggtacgttcc aacgccgtcg 420
 catggcggga cgctgccttt cccgttccac ggcg 454

<210> 32950
 <211> 230
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-C9

<400> 32950

gaccacgcg aacgaccgca cgtccgaaaa aaaaaaaaaa aaatataaac aaaaaaaaaa 60
 aaaaaagcg aaaaagaaaa aaacaaaaaa aagacaaaca caaacaaaaa aaaaacaaaa 120
 acaaaaaaac aaaaaaaaaa acaaaaaaaa acaaaacctg cctaccaccc aaaataaccc 180
 aaacccact ccacagccac caaacttaag aaccctttaa aatacccccc 230

<210> 32951
 <211> 85
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-D1

<400> 32951

accacgcgtc cgaaaaaaaa aaaaaaaaaat acaaaataaa agaaaaacaa aaaacaaaaa 60
 gagaaagggc aaaaataagg aagac 85

<210> 32952
 <211> 456
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-D11

<400> 32952

cggaacgcgtg ggcggacgcg tgggggttcag attcgtttga ggcaaacagg aggaggttgg 60

gtttcatggc tcggtcttca gttttaccag tgcattgactt tttcctgcta gtaacatttt 120

gttcgtaata agcaatatta cttctattgt cctgcctttt cacaacaaa tgatactgtg 180

ttctacctca tggtttcttc accgtcatgt tttctgttgt caggtccttg agctagtggg 240

gtcaccaatt gttcctgtga ctgtcatgtt ttctgtgttt gttcgactat tgcagatctg 300

cagtagcttg tagctccatt tgggtgtttc atatcacatg actctgttga cacttgccac 360

ttgctagtgt cgtgcaaccg tggttctatt ctgtctggca taatgctttt tatctcattg 420

taaagagagg ggtcaacggg cactggagca aagatt 456

<210> 32953

<211> 238

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-D12

<400> 32953

gacgcacgcg ttcgcccacg cgttctcgga cgcgtgggta cggacgcatt agaaagaaag 60

ataaaataaa aaaaaaggaa agaaaaaaaa aaacaaaaaa aaaaaaaaga taataaaaaa 120

aagagcagaa caagcaatat gacctaatat tgatatggct tgtcacaaac aaattatact 180

gcgtattacg atatgtgaat gtaaagcaat atgtttactg ttaaaagatc ctaattat 238

<210> 32954

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-D3

<400> 32954

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ggccgggctg agacaatcac ggcgcgcctt gtggccctaa cgcactaacg taggtagccg 120

ctgacgggtg gctgaagcct ctgttactac ctcgaatgct caattagagg cgttcactaa 180

taaaccgact cactgaacct tcgctccact ggcttttaaa ccaagtgcga tgaccacttg 240

tgcgaaatcat ccgttgctgt cctactatgc tgaattacta tcgcgcgccg gtcataacta 300
 ccgtaaaact aacatgtcta acgacggcat aaacgcagct tacgttacct attgctccgt 360
 taacacatct acacttactg 380

<210> 32955
 <211> 279
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-D4

<400> 32955

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 gagcgggcca acataatcgc acatgccgtt gtgatgacaa ctccctaacc cagatctgct 120
 ctgacgttgt gcaacagttc ctagtactgc ctggaatatt taattcaaga cattcactta 180
 tagtcagact tactataact tctctccact ggctgctaac actaatacaa cgtctaactg 240
 tgtgaatcaa cggctcctgt cctgctatgc tgaattact 279

<210> 32956
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-D5

<400> 32956

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 gaagctaata aagacctctt ccgtcgcctt cgccgggaac agtgacatgg ccctccagta 120
 tgtattcgag ggggtgcacca agctgcagaa gcttgaggtc agagatagcc ctttcagtga 180
 caggggtttg ctctcaggac tggactactt gtacaacatg aggttcttgt ggatgaactc 240
 gtgcaggctg acgatgaggg gctgtagagg tntagctcag cagatgcaga atctggtggt 300
 cgaagtaatc aaggaccact ccgaagatga aggggaggct gagaccgttg acaagctgta 360
 cttgtatcgg tcaactggcag ggccaaggaa tgatgctccg ccgttcgtca ccctcttgta 420
 gtgctgctgc cgccaccgg 439

<210> 32957

<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-D6

<400> 32957

gtagttatct gtaatgtcta taagtaccgt aacggtagtc gttagaactc tcgcttttgt 60
gttatgtcca attctgtcgc cctataaacg aggcaaagtg tgcattgatt aatataaacg 120
gaggcaatgt agaaacaata gtagcaccta atataaacag aggcattttt acaactttgt 180
tctgaacgtg aacgtcttga atccggcaca ggttttaggc attcctttgc gtgctacact 240
ggcatgcaac agcaacatgc tgtacaggtg gtgcactcca ttagttctta tggcaacgac 300
aatcaatttt tttttaaatg acaattattc ttggatagta gatattctgt atacatttgt 360
ttagtttggt gccttttctt ttctcctaaa cattttaatt aatcactaat tacttagtta 420
ttgcaagcac ttcaaaaatg aagggccaaa atttattt 458

<210> 32958
<211> 311
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-D7

<400> 32958

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tcagatagca aggagcgtgt cgcgctgctc ctggcggaac tctctgatgc tagtctgctg 120
tcactagccc cggtcggcgc cgctacgaca tgcgcaccta cgcaactgac cccgtacgca 180
cccgccatcg ttctgaacac tgcgctcacc gcacaacact acgccattct caatgaacac 240
ccgcagacct gctattacca gtacaagatg aaccccatca tgcaacgcta catctactgc 300
cccaacggct a 311

<210> 32959
<211> 456
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-033-Q1-K1-E1

<400> 32959

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cagacagccg cgacgcggag gcagcacccc cggcgcccaa ggcgcccgtg gtcggatggc 120

caccggtgag gtcgtaccgg aagagctgct tccagcaggc aaagcagcag gccgtcagca 180

gcagcagcag caaggcggcc gacaaagagg atgctgcggc gccggcgccc agctgcacgg 240

cgcccgcagc cgcctcaaac gccaccgcca gcgccggggc cggctcattc gtcaaggatga 300

gcatggacgg cgtccgtac ctgcggaagc tcgacctgag gatgtacaag gngtaccggg 360

agctccggga ggccctggag gccatgttcg tcttctttcg cagcgctaac gccacaaca 420

acctgtccga gttcgccgtc acctaccagg acaagg 456

<210> 32960

<211> 269

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-E12

<400> 32960

cagagtagaa gttttctctc agaacctcta gtatctgttt tcaagtttag ctctgaatgg 60

atgataagca tgctgttcag tttgttctta aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaaaaat atgtgtaaca taaataaaaa caaatgaaac aaaaataaaa aaaaatcaag 240

actggggggtt ctcttttaggg tacccaact 269

<210> 32961

<211> 409

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-033-Q1-K1-E2

<400> 32961

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ccggcgccgg cgcgcagcag ggcgtgtgga gcatcatcac ccggcccatg ttccagagca 120

tgctgagcca ccgcggcgac agcgggtgcc agggcgctt ctacacctac gacgccttca 180
 tcgaggccgc cagcaagttc cccggcttcg gcaccaccgg cgacgagcag acgcgcaggg 240
 gggagctcgc cgccttcttc ggccagacgt cccacgaaac caccggtgga tgggcgactg 300
 ctccggatgg accgtttgcc tgnngatact gccgggtgaa ggaacagaaa cagacggacc 360
 caccctacta tggacgagga cccatacagc taactcataa gtacaacta 409

<210> 32962
 <211> 197
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-H6

<400> 32962

aaaacacata acaccaaaaa caaaacattt acatttaaaa aaacacggtc cccacccag 60
 ggccagggtt atttctaacg ggggcatgcg cctacaatta ctctactata ctaccatcta 120
 caattcaatc acttcaccgt tatcacaaca tatcttacca ccttaaaaaat aatgtatcca 180
 tataacttaa tcccata 197

<210> 32963
 <211> 314
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-H9

<400> 32963

cagaagcgaa acgggcacac gcaactgatc aaggcaacca atattcaccg tcggcaatgg 60
 gcgacctgat ccctgggctg ccggatgaag tggccaggga gtgcctcgtc cgggtgggct 120
 tcgaccagct gccggtggtg cgccatatct cgcgccagtg gaagtcggag gtggagtcgc 180
 cggactacca ccgccagcgc cggacgtagg ggcttgcgcg cccggtgctc gcgcttgctc 240
 atgcgcagcc tacagcgccg tcggatgacg actactacat cggcctcgta tacgagcgct 300
 cgacggcggc caac 314

<210> 32964
 <211> 456
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-033-Q1-K1-A1

<400> 32964

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gcttccgtta ttgctgctgg attggccgta gggcttgctt ctattgggcc cggagttggt 120

caaggtactg ctgcaggaca agctgtagaa ggtattgcca gacagccaga agcagaaggt 180

aaaataagag gtactttatt gcttagtcta gcttttatgg aagctttaac aatttatgga 240

ctggttgctg cactagcgct tttatttgcg aacccttttg tttaatccta aaaaagaaaa 300

tgagtccttt agattagata cttttttctt tntttagtag attggcattt gcttatgtaa 360

ttctaagtat atcaatactt tactttactc ctatttatta tattatttct ttgttatatt 420

attccggaaa ttttgatatt atcgggacag acaata 456

<210> 32965

<211> 540

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-033-Q1-K1-A10

<400> 32965

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cggcgcgggc tgggcgtgag tccaataggc actgggctcc gttggtggcg ccgaaccgcc 120

tctaacttgt gggtagctgg gccggggccgt gcgaggccag aggcntgccg gttggctaga 180

ctttgggnat tctgnnactg tagaggcggt acaaagtcac annatccggc accacagagt 240

agctttttcg gccacttgg catttttcaa ctcaagtcgc cgatgacca tatgtgtgtg 300

agatcaatcg gtatccttct cgtacttttag gttgaagtta cctaaatcgc ggtcgctggt 360

caattcagta ngnggtaaa acctaactnn ctgtctcaac gacgagtctt taatcctcag 420

cttcaactgt tccctaaatt ggtgggtgaa accaanntcc aacacttttg gtgannattc 480

tgcttttcac aatgatacgt gaagaagccc cgtacatcga agggaaatca aaaaagcaac 540

<210> 32966

<211> 399
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-033-Q1-K1-A12

 <400> 32966

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 ggagaaaaaa aaaaaaacaa aaaagaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaca aaaaaaaaaa aaaaaaaagc ggcgccccac aacagagacc caggcaaccc 180
 acccccggca cacaaaccaa aacccccacc aacgcacccc caaaaaaaaa accacgaccc 240
 caacaaaaaa acccgaggac cgagaaaaaa ccaaagcaac ccccaaaaaa aacgcaagaa 300
 cggaaccccc ccagccccag cgagaaaaac acaacaaaag cccaaaacac gcaccgcgca 360
 acaaaaacac aaaccacaga aggaaaaagg ggcccaccc 399

<210> 32967
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-033-Q1-K1-A2

 <400> 32967

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 ggcttgtgtt gtcaacattg gggctcaagt tacacaagta gtttgtgttg aggatggagt 120
 agctttgccc cacacagctc tggcgcttcc atatggtgga gatgacatct ccagatgctt 180
 gctttgggtt caacgtcgcc atggcacgtg gccaaacttc caaactgac caatgagcaa 240
 tcctatagat atgctaatagc tcaacaaaat caaagagtca tatagccaaa taaagactgg 300
 gagcattgat gcagctgtcc ttgttcattc atatgataat gaaaggctctg gtggacatca 360
 gaagacaaga ctatcagcta ttaatgttcc tccta 395

<210> 32968
 <211> 103
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-033-Q1-K1-A3

<400> 32968
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gtccgcccac gcgtccgccc acgcgtccgg ttctagatcg cga 103

<210> 32969
<211> 90
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-A4

<400> 32969
cgacccacgc atccgcccac gcgtccgccc actcgtccgc ccactcttcc gttcactcgt 60
acaccactc tttcggatct ttgataactt 90

<210> 32970
<211> 397
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-033-Q1-K1-A7

<400> 32970
gcgtcgccac gcgtcgacag cgcactctac attgcttctg agttgccgcg ctacacgcca 60
ctactaaagg ccagccgact atggcggatc agcctctcta cctacgcctg tactgagtgc 120
gccgtgagct tgcaccccac ggcgatctac cgctggcggg gctgcctcag cgctgagctg 180
gcacggcgct gtctctcccc tgcctaagct gccgttcctc cgccgactgc tgcggctcct 240
cgccgcgtcg ggcgtgtaca ccgtcgacaa gcagagcacg gaggaggagc ggtaccgcat 300
cagccncgtg tctacactgc tgggtggacgg catccctcac gaggaccaca tgaaccacac 360
cgatctggtg ctcacctgca cctcgacgcg ctacatc 397

<210> 32971
<211> 437
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-033-Q1-K1-B1

<400> 32971

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gcgaccaacc ccgtcgggtcc ggcgactccg gctgcggcgc ggcgtgctag atcgctaccg 120

accatggtgg tggaggagat cgccgagggg gtgaaaaacc tcaccgttac cggagatgcg 180

gcggcttcag gcggagaggg gcagaggagg ggcggcggcg gcagcagcaa ccgcatccag 240

gtgtccaaca ccaagaagcc cctcttcttc tacgtcaacc tcgccaagag gtatatgcaa 300

cagcacgacg atgtagagct atccgctctt gggatggcca tagcaacagt tgtgaccgtg 360

gcaganattc tgaagaacaa tggatttgcc gttgaaaaga aaattaggac ctctactggt 420

gaaataaacg acgaatc 437

<210> 32972

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-B10

<400> 32972

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gtatagacaa tgtacctgat tagctacatg acaaatttc ctctgatcag cctattttatc 120

aaaagatagc gaacgggtctg cgtactttga tacttgggtct tattctgtgt gcttaccaca 180

gccgaacatt ttccatgtta aatggatatg gagctcccct gcacatctat cactcatcta 240

taacatcatg atgacactgg acccgagact attctgcgag aggcaagcta atggcatcgc 300

tatccatcat cgatcttcat accctcttat atcagtgaag tccggcggat aaatgatggc 360

ttccacgggt tacttccatt taccttcaac gagacactga ctgggaccac tgcaactccg 420

tcctacttca ataacaagaa caa 443

<210> 32973

<211> 218

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-B2

<400> 32973

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gcctaaacta atttttgata ttgataagag tgcttattat aaagcaattc ttgcaatttt 120
tttaagaatt gatttttgca ttttttaggtg tcaaaataaa gaaaacccat cctagtggat 180
ccgtgtggta aggaaaaatg ggtaatctat tccttaac 218

<210> 32974
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-B3

<400> 32974

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tcctccacgg cgatggccgg ccccccatc aaggtgggtt ccttcggcga gggccgcac 120
accatgcgca agaccgtggg caagcccaag gtggcgggcgt ccggcagccc ctggtacggc 180
cccgaccgcg tcaagtacct cgcccccttc tccggcgagc ccccgagcta cctcaccggc 240
gagttccccg gcgactactg ctgggacacc gccgggctgt ccgtcgacc cgagacattc 300
gccagaacc gcgagctgga ggtgatccac tcccgctggg ccatgctcgg cgcgctcggc 360
tgcgctcttc ccgagctgct ctcccgcaac ggcgtcaagt tcggcgaggc cgtctggttc 420
aaggccggct cccagatctt cagcgagggc gggctggac 459

<210> 32975
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-B6

<400> 32975

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gctaacattc taaaaataa aaaaataaat aatcaaacat tatttatatt cccttcttac 120
tttctcttc tttctacgtt ttcatttttc ttttcttttc cttacttttt cttcactttc 180
cttttttttc ccctattttc tcttctatta cccatctttt accccatctt atttgcttta 240
caccacatcc tcctttcttt aattcccttt ctatccatca gttttttacc attttccttt 300

atcaccatTTT ccccttctg aatcgtcttt tctaccctt

339

<210> 32976
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-B7

<400> 32976

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gagcggacag agcattacca aaacacttga taggtatgaa aaaaacagtt atggaggacc 120
agatactgct gtacagaaca aggagaacga gttagtccag agcagtcgta atgagtacct 180
caagctgaaa gcgaggggtgg ataatttaca gaggactcag aggaatttgc ttggtgaaga 240
tctgggggtca cttggtgtca aagagcttga gcagcttgag aagcaacttg attcatcctt 300
aaggcacata agatccacat ggacacaaca tatgcttgat cagctcactg atcttcagag 360
gagggagcaa atgctgtgtg aagcaaataa gttgcctaga a 401

<210> 32977
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-B8

<400> 32977

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atccgtttta gcattaccaa aacacttgat aggtatgaaa aaaacagata ttgacgacca 120
catactactg cacagatcaa ggagaactag ttaatccaca ccagtcttaa tgaatacttt 180
aagctgaaat caaagcttac aaaattacat acgactcata tgaatatgct tgatgaaaat 240
ctatattcac tttctgtaaa ataacttaag caccttgaga agcagcataa ttcacacctt 300
atgcacataa tatccacata gtcacaacat atccttgatc agctaactga tcttc 355

<210> 32978
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-C11

<400> 32978

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gggacaaccg cgacgcggag gcagcaccac cggcggccaa ggcgcccgtg gtcggatggc 120
caccggtgag gtcgtaccgg aagagctgct tccagcaggc aaagcagcag gccgtcagca 180
gcagcagcag caaggcggcc gacaaagagg atgctgcggc gccggcgccc agctgcacgg 240
cgctccgacg cgctcaaac gccaccgcca gcgcgggggc cggctcattc gtcaaggatga 300
gcatggacgg cgccccgtac ctgcggaagc tcgacctgag gatgtacaag gggatccggg 360
agctccggga ggccctggag gccatgttcg tctcctccgg cagcgctaac gccacaaca 420
acctgtccga gttcgccgtc acctaccagg acaagga 457

<210> 32979

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-E2

<400> 32979

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gtcgcttgcc accgagccct tcgtcgttcc tggccggcat tgggcacctg caccttttga 120
agaaaccggt tcaccgaacg ctgtctgctc ttgcggcgca acacgggcct gttcttctct 180
ttcgattcgg cttccgccgc gttgtccaca ttgccgacce tgccgtcgcc gcggagtgtt 240
tgagcaccca cgacgttacc tttgccaacc gcccgcggtt ttccttcgcc cgctatctct 300
tcaacgacta caccacgttg ggctcgtaa gctaccggcc caactggcgc aacacttgcc 360
gcatatccac cgtcgacatc ttttcctctc atagcgtgct ctgctccgcg gatg 414

<210> 32980

<211> 128

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-E3

<400> 32980

cttttatttt gtttaccaaa cttttttatt tttattgaaa ctggatcaac acatattttt 60
tctttttact acaaaaatta aaagtaaattc ttccttttta aatttggtccc acccgacaca 120
ctttttttt 128

<210> 32981
<211> 400
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3068-032-Q1-K1-E4
<400> 32981

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ttgggaaaag gctttcgctt acgctgtgct atctccaggt ctctactgtc atgttcacca 120
tccttgtctt ctctctcata atcccttcta tccctttcca ccttcggttc tttttcttta 180
tcaagacgtc ttctctggcg atcatgctcc acatcaggac ggtcaacact aaagtcacgg 240
tcagcatgtg atagacaagc tctctccctc ttctcattgt gaatggctct atttgcaggt 300
ggcaaatagc tctgtctc cgccttaacc aaaccacccc ttgaagatgc cactgcttgt 360
ggggccactg aagtatcatg cangaaatgc tggaattctt 400

<210> 32982
<211> 414
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-032-Q1-K1-E5
<400> 32982

ctggcaagag caacatccaa ttgaactatg tacttggaag agagaaaaaa caaatgtcgg 60
gttttagtcat cgggtgttggc agcatgaaaa gcggggagcg tgcattgttg catgttggtt 120
gggagctagg ctatggcaaa gaaggaagtt tttcattccc aaatgtccct ccaatggcag 180
accttgttta tgaagttgaa ctcatgggat ttgatgatgt taaagagggt aaatcccgaa 240
gtgacatgac agttgaagag aggattgcag ctgcagacag gagaaagatt gagggcaatg 300
catatttcaa agaaaagaag ctggaggagg ccatgcagca atatgaaatg gcgattgcat 360
acatgggaga tgatttcatg tttcaattat ttggaaagta cagagacatg gcct 414

<210> 32983
 <211> 338
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-032-Q1-K1-E6

 <400> 32983

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 ggaaatgcag gccttcttga cccttgaca tgatgagggc aattcaccgt ctgcagattt 120
 tgtgttaccg aaagctgaat gctttaacaa cgaacaagcg atctcttatg ctctctgctt 180
 ttctctgcat ccctgctatc ttaggagatt acccttgctg aagcacgaga tccataagca 240
 cctacgacgt gacttttacc aacagatcac gaattgtttc agggcgttca ttatcacact 300
 actccattac aatattctta tcaatctact caccacac 338

<210> 32984
 <211> 77
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-032-Q1-K1-F11

 <400> 32984

 aaaactaaaa aaaaaaata atgaattcac aaaaataaaa ttcaaaaaaa taaaacaggg 60
 ggagttaaaa ctaaaaa 77

<210> 32985
 <211> 143
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-032-Q1-K1-F12

 <400> 32985

 aaaaaaaaaa aaaaaaata aaaataataa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaag 60
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaaaaaaa aaaaaaaaaa 120
 aaaaaaata aataataaaa aaa 143

<210> 32986
 <211> 280
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-032-Q1-K1-F3

 <400> 32986

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 gcgagtgcga gctcatccac ggccgctggg ccatgctcgc caccctcggc gccctctccg 120
 tcgagtggct caccggcgctc acctggcagg acgccggcaa ggtggagctg gtggacgggt 180
 cctnctacct gggccagccg ctgccgttct ccatctcgac gctcatctgg atcgaggtgc 240
 tcgtgatcgg ctacatcgag ttccagcgca acgccgagct 280

<210> 32987
 <211> 172
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-032-Q1-K1-F5

 <400> 32987

 gccacgcgtc cgctttcttc ttctttctct tctttacaca agcgtgctcc ttctttctct 60
 gtgcgtagta tctagctcac aacaggggaa gaccagaaga aacaaggccg ccgccgccgc 120
 tgcagcaaca acatacacct tttgccctgg cccattggc atccttgacc ac 172

<210> 32988
 <211> 351
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-032-Q1-K1-F7

 <400> 32988

 ctgaagattc ggcgatggcg tcgactatcc aatccgtgaa ggtgcgccag agctttggca 60
 gcctcggcaa ccctacagtc gaggtcgacg tgttttgctc agatggaacc tttgcaagg 120
 cagctgttcc cagtggagca tcaactggtg tatatgaagc tctggagttg agggatggtg 180
 gctctgacta tttggggaag ggtgtctcca atgctgtgaa caatgtgaat tctgttattg 240

gacctgctct gattggcaag ggctcttcag cacagactga taattgatac cttatgggtt 300
aacaactttg atgggactca aatatattgg ggattgtgca agcaaaaact t 351

<210> 32989
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-F9

<400> 32989

agaagaaagg catagcagcg ggcagcggca tgggcaccag ccccgtcac cctgcgacga 60
tgctcttcgt cgctcttctt gtcgctgtct gcttcggcgc caccgccgcc aggtccagcc 120
acgcccgcc caccgacgcc gactacgca ttcgtctccc cagcagcttt ggcgctggtg 180
gtcgaccgtg gaattgctgc gactccgcta tcaaggactc cttcctgccg gcgtggcgct 240
gcaacgacgt ggtggacaag tgctccgtcg actgccatga ctgctaggcg tttactgccg 300
gcgacggctt cgtctgcggt gactttattc taagcctgac cgagcccccg gtcggcacac 360

<210> 32990
<211> 224
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-G1

<400> 32990

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gtttggttcg agtgaacggc attcttgctt ctgcagagct gcatgaacca ttcattgccg 120
ccaaatgcta aagcatttaa gagagactag gacaaggatg gccatgcagt gataattgcc 180
cttaagccca tcagcaagga cgaagagatt accatgcctt acat 224

<210> 32991
<211> 77
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-G10

<400> 32991

aaaaaaaaa ataaaaaata aaaatgataa aaaaaaaaaa aaaaaaaaaa aaaaaagagg 60
ggataaaaag gaaagaa 77

<210> 32992
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-G11

<400> 32992

cggacgcgtg ggcttccgcc agactccgcg ttctctctga gcagctgccg ccggccccgag 60
agtggagggg gaggcaggcg cccaggctgt caatggggac ggggagcgcg acggcggcgc 120
aggccctggc gctcgccgcc ttgctgctcg cctgctctgg cgtcgcagtc gtcacggcgc 180
aggacattga gcggatccaa ggaagtgccg gcgacgtgct ggatgacgac cccgttgggc 240
ggctcaaggt gtacgtgtac gagctgcctg ttaagttcgt catgaacgtg gtggcgaagg 300
actcgcggtg cctgatccac atgttcgcca cggagatctt catgcacc 348

<210> 32993
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-G12

<400> 32993

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gccgtcgcca caccacaacc cgtcgaagcg aagcaagcaa tggccggagt cggatcgaag 120
gccctcgccg ttgccgccgt tctggcggac gtctccctct cggtggccgt cgcggccgag 180
gcgcccgcgc ccagccccgt ctacgatgtc gtcgcgttgt ctgttgtctt ctctgggtc 240
ctcggcgccct tcgtcgccgt ctctctcttc gtcgacgttc gccactgatg ccttgtggcc 300
tcgtgcctgc aggctaccta gcagta 326

<210> 32994
<211> 172
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-G3

<400> 32994

gattgagata tatacacgcg catccaaaca atttctatgc ccttaggaaa tgggttggtt 60

gactgccttg tgtaaaacttc gctggagacc tgtggtttgg aactatgctc acggctacga 120

tgggatcaga ttattttgag tattgatgac acgagtatat gtcgattgtt tt 172

<210> 32995

<211> 338

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-032-Q1-K1-E10

<400> 32995

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ttcggtttcg tgggtgagcg gatcgagatg gcggcgctctg atgttgagta ccgctgcttc 120

gtcggcggcc tcgcctgggc cacggacgac cactccctcc acaacgcctt cagcacctac 180

ggcgagggttc tcgagtccaa gatcctctc tatcgtgtga ctcatagggt ccgcggcttc 240

ggcttcgtca ctttctccac ggaggagggt atgcgtaact ccatcgangg catgaacggc 300

aaggagctgg acggccgtaa catcacgctc aacgaggc 338

<210> 32996

<211> 187

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-G6

<400> 32996

acggtctggg ccgaaccaag ggctgccgtt ccgtttcaaa tacctgcgac ctttctccag 60

ggaaccgtgg aactaccaca ccggccaggt cccaactac tacggctgac acacctatag 120

gctctacata ttcccctaga catttaccaa caacctctat ctgaaagata tccactcata 180

cttggcc 187

<210> 32997

<211> 211

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-032-Q1-K1-G9
 <400> 32997
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 tatttggtgt ttatgtgagg ctgcatgcta atgattaact ctggtcttta tgtccatgtg 120
 agaaggctaa taaattatct ctttattttg gttcgtgaaa aaggatgttt gaccctcgag 180
 acgagtaact acatatgggtc tgatacttac t 211

<210> 32998
 <211> 388
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3068-032-Q1-K1-H1
 <400> 32998
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 gtgtggtaat cttgcaaggg atcgctacaa gagcattgag aaacgtggaa tacttgcacc 120
 aagcaagaga ataagcaaac gtcggtagag aaggcaagtt ccaatctgag ggatgatatg 180
 gtgaagctgg attgaagagg atttactaga ttgagaaga ccctttggat gttcactgtc 240
 ggaatgttcc cctctttcag tgtcttgcca aagtacctaa cgattgggtc tgtccgtgtg 300
 gggcttcgtt gtgacgctag ttccataaga tcntggatgc actcatatac cctggctggt 360
 cttgatgcat gaaggcgtat cgcttggt 388

<210> 32999
 <211> 346
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-032-Q1-K1-H11
 <400> 32999
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 tcccgatcag cagctgatcg ctactcttg cagctcgatc attcttttagc tgctctagct 120

ctagcctcta gccctagcta gtagctagcc actcggtcgt gtagtcatca gccttctgat 180
 cgtcacccat ggccactgcc gaggtccaga cccctgccgt cgtggcgacc gaggaagcgc 240
 cggtggtgga taccgccggt ccgcccgctg tcgtgccctg ggagggtgcc cccttcgccg 300
 aggccaaagt ggaggagcca gcttgcccgg cggagaccga gccagc 346

<210> 33000
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-H4

<400> 33000

gagaaatcca ggcaggtttc atgactggca gtgcaaaggc gaaggaagggt gacgttttct 60
 ttgtgccggc tcacaccaag ggctggaaac gagccgagct cagtttggtt tggcgcggtg 120
 gcttgatcgc gctcggcttg tctactcaac aagctacaaa aggaggctcg gcttggtatc 180
 agctcacctt gtctactgaa caagctataa aaggaggctc ggctcgttat tagctcacga 240
 ggaggctcgg ctcggtatta gctcacgagc caccttgctt actgaacaag ctataaaaagg 300
 aggctcggct cggtattagc tcacgagcca aacaaactcg cgagctgcaa ttgataaat 360
 aatattatat tatataatga attaatagtt tatcgatgt 399

<210> 33001
 <211> 226
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-H7

<400> 33001

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 caaattcact aatatgggtg cacatcgaga taccactgac tcaactctata aacattatca 120
 atgatcaaat taatctgctt attctacatc gagcatatca cttatcacgg attatctaag 180
 atgtaccgaa cgatacgcct tgccaacaat acatcagcct gaatat 226

<210> 33002
 <211> 264
 <212> DNA

<213> Zea mays
 <223> Clone ID: LIB3068-031-Q1-K1-H8
 <400> 33002

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 tgtttcattt ctccatcctg agttctttac ctctcttcta tctataggtc tattcatagg 120
 cattcatgaa aattttaccg agagaaaaga ttggaaggga ggtttaattc tggcccttag 180
 gtgtggaaac tttggtgatg gtaggtcgat atcttaccag gtggaaatta ccatgccatt 240
 atagcacggt atttgtgaat attt 264

<210> 33003
 <211> 374
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-032-Q1-K1-A11

<400> 33003

caaaaattat caagactggg ttgcagcaa ttcactgat atactttttc actggtgggc 60
 ctgatgaggt aaaatgttgg cagatcagac gccagactaa agctcctcaa gctgctggcg 120
 caattcacac tgattttgaa aggggtatca tatgcgctga ggtaatgaag tttgaagatc 180
 tgaaagaact gggcagtga tctgctgtaa aggctgcttt aaaatacatg caggagggga 240
 aaacctatgt ggtccaggac tgggacatca tcttttttca aattcaacgt gtctgggtggc 300
 gggaagaagt gaagaatgta tgaagatggg agcatcacag tgttttacgt cttaccctca 360
 atttctcatt caac 374

<210> 33004
 <211> 183
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-032-Q1-K1-A12

<400> 33004

ctcacgcgtg cgcccactgg tacgttcacg cgtacgcca ctggttcgtc gaccggtggc 60
 tcggcgagga gggcagctat ctagcttagt acgtgtactg gtccaacggc cgtgagacct 120

agaaccccat cgtctacaac aagcatttct ctttgaagaa cttattgaag ctgtgcggca 180
ggc 183

<210> 33005
<211> 142
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-A2

<400> 33005

aaaaaaaa aataaaaaaa aaaaaaaaaa aatttttttaa ttaaaaaaaa aataaaaaaa 60
aaaaaagaaa aatttaaaaa ataaaaaaaa aaaaaaccaa aaataaaaaa aaaataaaca 120
ttttaaaaaa ttccattata aa 142

<210> 33006
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-A4

<400> 33006

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gctgagcctg tgcctccagg ccgctctggt catgggcgtc ttcgccgctt tggctaaaga 120
aaatgccctg gttgagagca aggccatcga catcaaccg gggcagctca agtgctgcac 180
caactgcaac ttctccttct cggggctcta cacctgcgac gacgtcaaaa aggactgcga 240
ccccgtctgc aagaagtgcg tcgttggcct gcaagccttc taattcggcc accaccaggt 300
taagtgcacc gacaccttctc ttggcatttg ccggcccaag tgctagatca gagaggaaga 360
accgcgctt ctgctagctg ctatagcttc gttctttcg 399

<210> 33007
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-A7

<400> 33007

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 ggatgtgctc cctcctaggt ttgctccttt aggaccttgt attattgagt gtttaacttgg 120
 aatttcgtct gattgggtccc tagtagttag ttaggtgtgg aagcaacatt tgctatagcc 180
 gtagtgttag gagtaccatg tgttcgttgt ggtcagggtcc atggtgcatt ggtgctgagc 240
 cttaagcgga atgaacccta tgctcgtgtg gaggcccatg gcatcgtgtt gtcgggtggt 300
 gttgtagctt gttgatgccc tattttatat tattatacgc gattgaagc 349

<210> 33008

<211> 472

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-032-Q1-K1-B7

<400> 33008

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 agcgacggcg tggaggtgaa gagctacttc aacaagtccg ccgggagggc ggcgagcaac 120
 aacaacaaca acagcagcca cgccggcggc ggcaacaaga agggcgggcg cggggagtag 180
 ggaggaaga agcacgcca gagcgaggcg gcggcgggcg cgggcgccac ggacaagcag 240
 cggttcaaga cgctgccggc gtcggaggcg ctgccggggg gccaggccat cggggggtac 300
 atcttcgtct gcaacaacga caccatggac gagaacctca ggaggagct gttcgggctg 360
 ccgtccaggt acagggactc tgtgcngtgc tatccgccgg gactgcccct ctctctctac 420
 aactactcca cgcaccagct ccacggcatc ttcgaggccg cgagcttcgg cg 472

<210> 33009

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-B8

<400> 33009

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 ttgaagctgc ttgactccca cctagtgcct tcttctactg ctgctgaatc aaagggtctc 120
 tacctcaaga tgaaggggtga ctatcacagg tatcttgccg aatttaagac tgggtgctgag 180

aggaaggaat ctgctgagag cacaatgggtg gcctataagg ctgctcagga cattgctctg 240
gctgagctgg cacctaacca tccgataagg ctgggacttg ctcttaattt ttcagtgttc 300
tattatgaga ttctg 315

<210> 33010
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-C10

<400> 33010

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gtcgactaca aagggaccgg ttctgagatc acccccttcg gtgctggtcg tcgacgtgc 120
cctgcaatca tggttgccac ttctactcta gatattgcat tggcaaact tctctaccac 180
ttcgactgtg ctcttcggga tggaatgagc ccatatatgg ttgataagtc tgatcaatac 240
gggatgggtg tcacaaaaaa gttagaccat gatattatta ccatcagata tgtatactgt 300
actatggcat acgtattggt tgtggttaaa 330

<210> 33011
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-C2

<400> 33011

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gcagctgac gcgcactctt gcaactcgat catgcgttag ctgctctagc tctagcctct 120
agccctagct agtagctagc cactcggtcg ttagtcatc agccttctga tcgtcaccca 180
tgccactgc cgaggccag accccgaccg tcgtggcgac cgaggaagcg ccggtggtgg 240
agaccccggc tccgtccgcc gtcgtgcccg aggaggtgc ccccg 285

<210> 33012
<211> 343
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-032-Q1-K1-C7

<400> 33012

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tcaggagacg aaacgggtcga catggctcgc acgcaatctg ccgtagcggg cgccgtgggtg 120
gccgcgggtgc tgctgctggc agcggcgggc acgacctctg aggccgccat cacctgcggg 180
caggtgagct ccgccatcgc gccctgcctc tctacgccc gcggcacggg gtccggcccc 240
tgcgcgtagt gctgtagcgg cgtaggaac ctcaagagcg ccgtcagcac cgtcgacgac 300
aggcgcgccg actgcaactg cctcaagaac gccgncaggg gcg 343

<210> 33013
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-D11

<400> 33013

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ccgccggaga tcgagaccgt agctaggggt tgaggcgccg ggctgcgggtg gacgagatgt 120
cgacgccggc gaggaagcgg ctgatgcggg acttcaggcg cctgcagcat gacccgcccc 180
ccgggatcag cggcgcgccg cagcacatca acatcatgct ctggaacgcc gtcataattc 240
ggccggatga tacgcccgtg gacgggtggc cgttcaaagt taccttgcta gttacagaag 300
attacccaaa caagccacca atctgtcgat ttgtctctag gatgtttc 348

<210> 33014
<211> 489
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-032-Q1-K1-D2

<400> 33014

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ttggagagag aagagaccga tcaagtcatt ggtgacaggc aggccaattc tgcttgcaat 120

tgaggatatt gatggcagcc cttctttttt agaaaaagcc ctgcgctttc ttgagaaaca 180
 tggaataaaag gtggaaggaa ttttgaggca gtctgcagat gtggaagaag ttgacaggag 240
 gttgcaagaa tatgaacaag gaaagactga gttttcagca gatgaagacg ctcatgtttg 300
 cggtgactgt gtaaagcatg ttctccgaga gctgccatca tcccccgctgc ctgcttcttg 360
 ctgtacagca ttattggaag cgtttcgcct ggagactaan gatgctagga taaatgctat 420
 gcgttcagct atatctgaga catttinctga gcccaaatcg aggttgctgc agagaatttt 480
 aaaaatgat 489

<210> 33015
 <211> 316
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-D3

<400> 33015

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 aagaccaccg tcgccagggt cgggcgccgc acggcgacgt gcagggccag cagcggcggt 180
 ggcggtggcc ggggcggcga aaatgatggc ctcttttggc tgccccggcg ggacgtgatg 240
 ctcaacggcc tgtccagtgt cgccgccggg ctgcctggt acccgggcgt cgcgtccggc 300
 gcggatgcgg tgtgca 316

<210> 33016
 <211> 266
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-H6

<400> 33016

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 aattctttca tttctccatc ctgagttctt tacctctctt ctatctatag ttctattcat 120
 aggccttcat gaaaatttta cccggagaaa agattggaag ggaggtttaa ttctggccct 180
 taggtgtgga agctttggtg atggtaggtc gatatcttac caggtggtaa ttacatgcc 240

ttattgcacg taatttgtga atattt

266

<210> 33017
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-D8

<400> 33017

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cagggcccca gggttcctac tctcgtggca tcggcagcac tgaggggaag atgtcgtcgg 120
tgttcagcgg cgatgagacc gtcccccttct tcggtttctt tggcgccgtc gtcgctctcg 180
ttttctcatg catgggggcg gcgtacggga ctgccaagag tggcgtctgc gtggcgtcca 240
tgggtgtcat gctcccagag ctcgatcatga agtccatcgt gcccggtggtc atggctggcg 300
tgctgggtat ctactgcctc atcatcgccg tcatcatgag cactgtgatc aacctcaagg 360
ccaagccata ctacctcttt gacggctatg cctacctgtc ga 402

<210> 33018
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-D9

<400> 33018

gccaggaggg ccataaaaca aaacaccctt aggtttggtg agagtgaggc caatgtccgt 60
gagatttttg acaaggctag gcagtctgct ccatgtgtcc tcttttttga tgagctcgac 120
tccattgcta ctacagagagg aagcagtgtt ggttacgccg gtagtactgc tgataggggtg 180
ttgaaccagc tgcttactga gatggatggc atgaatgcta atatgacggt ttttattatc 240
ggtgcaacta acagaccgga catcattgat ccagccttgc ttaggcctgt tcgtattgat 300
cagcttatct atattcctct ttccgatgag caatccaagc ttcagatct 349

<210> 33019
<211> 173
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-F12

<400> 33019

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caagggcttc aaggacctgc ctcccgggat gccttcctgt ctcttcgtga ctgcattaac 120
ttgcttttgt gggttccggg cattctttta cacaacgact ggattggccc gga 173

<210> 33020

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-F2

<400> 33020

ctcggactga tgattggttt tgggtgtgga gaatttgatg gcaactcctc ttttatttgt 60
gggaagatga gatgtagttt attggtgaca acaaaaaggt caagggtata aaatccatct 120
gaaaaggacc aggcaagact agaggggatg aataggtctg ttataaaaatt tactcaaagc 180
aatggttagt gataggtgcg ccagttctag gaaaaaatgt actagcggtg caacggttct 240
aggcgcaact atgctactat cacaaaatag agcacctcat gaacataatt caaaatctac 300
aacaagaaaa gtatattgag taaattacta gtgttcccag tagtgtatag agactatttc 360
atcacttttc ctaagatgga cgctctagca caag 394

<210> 33021

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-F3

<400> 33021

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tgcgcgcaat atactcatca ctttattctc tacaacacaa acgtcaccgt tctcaaattc 120
atctccaaaa tgaccacca ctactcgtat tttatcaatc tgtctcatat aaaatttact 180
caaagcaatg cttagcgatc ggagctcaac tcctagctaa atatcaacta gagcaccaac 240
gtatctatcc tcacttatcc ttctatcata ttatacttca cactataaac cttatttaa 299

<210> 33022
 <211> 310
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-031-Q1-K1-F5

 <400> 33022

 ggagagtgag cctgtcagtg tattgtgtct ggcgtgggtca agaaccacaaat caatgttgga 60
 ccgaccgact gagagtttgg agtgtgtatg atttgctatt actctagtag agtgtgggta 120
 tacctgggca gaatgtgtcc tcaaaagttg ggggcctgtc tgtgtactgt gtgcgatgga 180
 cgccctaagt aaaaaaaaaag ggcaggtgat ggtcgtgctc caggtgatgg tcgccctaata 240
 cagagaatgt atgctaaaaa aaaagccaga gtgtttggct cctggttcat gttatgctga 300
 atcttggaaat 310

<210> 33023
 <211> 65
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-031-Q1-K1-F6

 <400> 33023

 aaaaaaaaaa aaaaaaaaaa taaaaaaaaa ttttttaaac aaaatccaaa atatattcta 60
 ggagg 65

<210> 33024
 <211> 356
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-031-Q1-K1-F7

 <400> 33024

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 ccgacgcgta cgtccacgcg ttcggacca cacgttcggc cacgcgtacg cccacgcgtg 120
 cgaccacgcg tgcgaaaaaa aagcacaccg gacaccgaac gatgatgcag tgctcttacg 180
 ggcgatggga ccctacctat agctgaaccg atataaaagg gcggccgggtt tataggcccc 240

aaagataagt cttcgcgatg ccaccgcata cgttttctga cgtgctaccc aaatgcaa 300
gacgggacgt ccggtctcaa caaatTTaat ggcgaaaccc tgtcgggtca caaccg 356

<210> 33025
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-F8

<400> 33025

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ggggactccg ctgctcgcca acggtgcagc cgacgtccgc cggaggaggg accaggcgaa 120
ggcaattctg tccacgcagg ccgtcaggat cgccaccaag gccgagcagc atgagcgctt 180
catctttaag gtcacacact tgctgggtgt tcttgattt gggggatttt gctatctctt 240
gggtgccaga ccacaggatg tgccatatgt gtactgctg ttctatgtca tatttgttcc 300
gctccgctgg atttactacc gctacaagaa atggcattac taccttctgg acttctgcta 360
ctatgccaac acctttctcc ttgtaatgat tctcttctac ccagaggatg aaaaactttt 420
tatggtttgc ctttcgtttg caaa 444

<210> 33026
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-F9

<400> 33026

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tgcgggctgc ggcaaggggg agggagagga cgtgacgagg ggaggggagg ggaggaggga 120
gggcaggcgg tccgacgaat gcacagtccc ggagaatatt ggtgaagcaa taacttgata 180
ttgggttcta gaccaaagaa gcaatggaaa aggaatcatc tgccacatac gagccaaaaa 240
ggaacagtga aataaggggtt tttgagagtt cagatgagat ttcaacggat cttgctgagt 300
atatctcaca agtttcagaa atttctgtca aagaaagggg ataccttgcc atcggttat 360
ctggaggtcc cctagtcaag tttttgggga aactctgtga aactccatac aacaagacac 420

t

421

<210> 33027
<211> 141
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-G12

<400> 33027

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gaacattcct gaaacaccct taactctaga tggcatactt tctgctatag actgccagtt 120
cctcaatcat aaagttacaa c 141

<210> 33028
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-G2

<400> 33028

ttcacgctga cgatcactct tctgtgcaca ctctttgata ccctctccac cactcatttc 60
agggaggatt cgatcacgcg tactgacgac cacatacagg tacacgttct aaaacccatc 120
cgaccacgac tacgcaagac tacaacagat gaataggtct gttataaaaat ctacttaaag 180
caattgttag tgataggtgc tccaacctct atgaaaaaat gcactatcgg tacacacccat 240
tctaggcgca actatgctac taccac 266

<210> 33029
<211> 72
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-G3

<400> 33029

cccacgcgta cgccccacgcg tacgtccacg ctttcgtcca ctcgttcgaa aaaaaaaaaa 60
aaaggaagaa tt 72

<210> 33030
 <211> 210
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-031-Q1-K1-G4

 <400> 33030

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 gcggggaggg tctttacagg ctagccagcc agctggtagc tcctgcggac aaggcgatgg 120
 ttggtgccaa ctttaacttt ggaccgagct tcggcttggc ctttccggaa gaagctccct 180
 tgtggtcaat aaagacacca tttaacctaa 210

<210> 33031
 <211> 287
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-031-Q1-K1-G6

 <400> 33031

 ctctatcgtc tgccaacgac gcgattggcg attccatttc taccgagaga cctccaggcg 60
 ggcgtccctg aaccctcagc cttctacgtc ccgcctcggc actcgacggt cgacggcaca 120
 caccgcgcag tctcgagaca ggaaccggag gaacgaggat ggaggatgac tcgccgctga 180
 cgaatacgat gaacggtgcg gtgacaggac tcgccgagaa gaccatctgg ggcaccgtcg 240
 tcgccacctg gtacaacagg ccccttgagg agcgccacgt agagctc 287

<210> 33032
 <211> 258
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-031-Q1-K1-G7

 <400> 33032

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 ggggatcgtg aacctggtct agctatagcg tcgaagagga actagtactt agacgctcgc 120
 gactctggcg atgaccgttc tgatggcgac caacggacag tgttcaagtg cagacgcgcg 180
 accggctata gaccggtgaa gcgcgtacag gacgatactc ccgctccttc cgtcggtgct 240

aatagacagg atgatgcc

258

<210> 33033
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-G9

<400> 33033

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aggaccgttc ctgctgctgt gctgctgtt gtctttctct ccggtggaca gagcgaggag 120
gaggccaccc tgaatctcaa tgccatgaac aagctcagca ccaagaagcc atggggccctg 180
tcctttctct tcggccgtgc cctccaggcg agcaccctca aagcctgggc tggcaagggtg 240
gagaacgtgg agaaggctag agcgggtcttc ctgccaggt gcaaggccaa ctccgaggct 300
accctcggca cctacaaggg tgatgctgtc gccgacaccg aaagccttca cgtcaaagac 360
tacaagtact gagttgcttc tctttgcat cccgttggtt tgga 404

<210> 33034
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-F11

<400> 33034

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tttgaagttt gtcctagaaa aaaggtttca agcattctcc ttgttggaga ctgatattctc 120
ctgttcctgg atcctaata gaactgtttag aagctctgat aattgtgcct atggaaacag 180
gtcttggatg tggttaacaa gatgccagc ttgagaaaga tttccttctc agcgcattct 240
ctgggtgggt tggttgctag atatgtatt gcaatactcc actcagtctc agtggaaaca 300
aataatgcat gacaaagtag tgcacttact gttcctacac aaga 344

<210> 33035
<211> 199
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-H1

<400> 33035

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ataaaaaata aaaaaaaaaa atattaaagg gaaaatcaat aaatcaaata tgaacacaaa 120
aaaaaaaaaa acataaatta aaaaatatac tattttataa ttccattcaa aataacacca 180
tataccttat ctgatatac 199

<210> 33036

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-H10

<400> 33036

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gaagagagca aaagatcttc tgtacaagga ctacaacttt gaccaaaagt tttctttgtc 120
gacgtctagc ggctctgggt tgaatctcac agccactggt gtaaagatca acgaagactt 180
cattggtgat atacggacac aacataaaaag cagtagaact actattgatg tcaccgttga 240
tagtgattct aaagtgtcaa ccacagtcac tgttgatgaa gcactaactg gtttgaagac 300
ttcattcgcc ttcaaagttc cggatcacia gtctgggaag cttgatctgc aatatgcgca 360
caatcgtttt tcattgaact cgaccattgg ttgacatca gcacctttgg ttgaactggc 420

<210> 33037

<211> 253

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-H12

<400> 33037

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aaaaaaaaaa aaaaagaaaa aaaaaaaaaa aaaaaaaaaa aaaagaacaa aaaaaacaaa 120
aaaaaaacaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaattaaa tatcacagac 180
aaaacaataa aataacaacc aaaacataat aaaataataa acaaacacaa catataataa 240

atacaactac taa

253

<210> 33038

<211> 74

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-H2

<400> 33038

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aattctttca tttc 74

<210> 33039

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-H4

<400> 33039

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tgtttcattt ctccatcctg agttctttac ctctcttcta tctataggtc tattcatagg 120

cattcatgaa aattttaccg agagaaaaga ttggaaggga ggtttaattc tggcccttag 180

gtgtggaaac tttggtgatg gtaggtcgat atcttaccag gtggaaatta ccatgccatt 240

atagcacggt atttgtgaat attt 264

<210> 33040

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-C1

<400> 33040

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aagcagatcg acaagctcgt gggcgcgaaac aaacctgagc tcgagaagaa agtgctagca 120

gccgctgatg ccagtacgtc ctagtgacac aagtggaaagt gggcaaacga tctgtgatgg 180

ctttccggtg tatagtttcc atggttcatt tgtgtgcttg tcccatgttt gcctggggac 240

gatgacgttt tacaattttg gccccatcg cgcgcactcg tctgtttctc tcatggaagg 300
 ccgtgtgaac ctgtgcctgt gtttgacaaa tgaacggaac tttatatgga ccaatgctta 360
 aaagtctttg caacctaatt ttttaagggtt ggttgcatag aaaaaaata aaaa 414

<210> 33041
 <211> 187
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-C11

<400> 33041

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 ggatgatgag gatgaggata agcagcaaca cacaccgacg acggagagcg aatatgcacc 120
 gcatcgagct gtagctcgtc cgcggcctgt gcgcactggc agtgcccgtc gtacacggcg 180
 gcaatga 187

<210> 33042
 <211> 219
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-C2

<400> 33042

acgctcggcc cattcgtagt tcaacacccg ccaacagtct tcgcgcggag agcgcaatca 60
 acagacagag gaactgctgg aagctagcat cttaccact cataagctat ggcagttcat 120
 cgcaccctct ttgcttgccg gtcgtcgcat gctacgcact acaatggcgg cctgaccgcg 180
 cctgtgcata ggacgcaccc tgctgtcgg gctgtctcg 219

<210> 33043
 <211> 291
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-C3

<400> 33043

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gctggcgctg gtcctcatcg tggccttcgt ctcgctggtg gtgtacctgg cgctgcgccc 120
 ctcgaagccg tccttctacc tgcaggacct gcagctgcgc atgcccattc cgctgggcga 180
 cccgtcgctg acggcgctcg cgcatgtgac gctggccttc cgcaacgcca acgaccgctt 240
 gggcatcttc tacaagcgcc tggacctgtt cgtaacctac cgcaacaagg c 291

<210> 33044
 <211> 127
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-C5

<400> 33044

gttatagatc gcgacagtcg tccgttgact ctttttatca taaattagat aaggtacacg 60
 aggttgacta attacttttg aataacttca caaatcatat ggaagaacca tagcatttcg 120
 cgattca 127

<210> 33045
 <211> 117
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-C6

<400> 33045

tcccacgctt tcgcccacac atcaatcctg ctctaaacaa gaactccctc ctacacctgc 60
 gagagctatc aaacaagcta acgcggtctaa catacacccc accagactca atctctc 117

<210> 33046
 <211> 328
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-C7

<400> 33046

gcgctcgccg ctatcattcg tttctggaga ccttctagc cccgccgtca ccacaccacc 60
 aatggcagga ctggatcaa aggccctcgc cgtggtcgcc gtcttgccg cgcgtctcct 120
 ctcggtggcc tccgcgccg aggcgcccgc gccagcccc gtcttcgccg tcgccggcgc 180

gtcagcgccg ttcgtcgcg cctcgtcgc ctacttcgtc gccttctct tgcgccggt 240
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 tggcatttca gtagtacttg ttctaggg 328

<210> 33047
 <211> 216
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-C9

<400> 33047

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 aaaactacgg atagagtcga ccactgtgcg ctggcttacg ccatgaacga tgagttctgc 120
 agagtgtcc atcagcatat gaagttcttc tccagcaacc catgctcacg tctcactcaa 180
 gacgtgtacg aagataaatg agcatagtat acacac 216

<210> 33048
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-D10

<400> 33048

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 cagtccctcc tgaagcagac ttcccggctg gcgctggagg agatcaagct caagttcatc 120
 gacacatcgt ccaaatttgg gcacggtcgc ttccagacta ccgatgagaa gcagaggttc 180
 tttggcaagc tcaaggcgta aggtgtgctg gtgcagcgaa gtcccatttc tcaaaatcat 240
 caaactgaga tactttgggtt tgtaaccttg ctgtaccaag tttttagacc atgggtccggt 300
 cgtctatgga ttgctccatg cttcagaact gcactgtcta tgttttgctc tatctggggt 360
 gttaatggcc caaaaaaaaa attaaaattt ttatatgttt tcctacatta atatt 415

<210> 33049
 <211> 354
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-D11

<400> 33049

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agctgggtcc ttcttcgtgc agaattgacat gttccgcctg aactatggct aaaagacagc 120
cgaaaactct tgtgatgaac gaatttggtta agggcttcat gttgagacga tgaataccga 180
ctgtcgcgcg tactctcatc tcctttgtat ctctctgtt ggctgattaa ctgttattac 240
aagaaattgc tggacttggt ttttccagtt gttttgaatc atgtattatg gttgcatggg 300
caccatttct tcgtgggatg tgaattgaaa cagtccaaat caattgggtg gggc 354

<210> 33050

<211> 212

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-D12

<400> 33050

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agtgtgcatg tctttcctta cacgtacata atgtcatatc acatatgaaa tattgatcaa 120
tgacattcaa acaatgttca tacaaaataa caagctaaac catctctttt actcacaatg 180
aatacctcct ctacactata aactcaagta ct 212

<210> 33051

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-D2

<400> 33051

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tggctgagat gtgtaagata cttctacatg ttctcaccct cgcagagctt gttatggcct 120
atagatgtaa ccgcctttgt taatgcctcg atgtagcccc cagcgagcat cgcatagcac 180
ctgttatgtt gtcagcgtcg ctactgataa tcggttctgt tggatcaatgc tactataata 240
atcggttgtg gtgcaagtaa tgtgaatagt gtaagagtgt ttcgtgttca aaaaaataa 300

catcgagcgt acatcttaat cggccaactg aac

333

<210> 33052
<211> 159
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-D3

<400> 33052

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ttacgaggag atctctagta acggcgagcg aacctagagc agcccaactt gagaatacaa 120

caggcctcgc cttctaaatt gtcctatgta aaggcctcc 159

<210> 33053
<211> 56
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-D5

<400> 33053

cccactcgtt cgcccacgcg tccgttgacg cgttcgtaa aactagcgct gtttac 56

<210> 33054
<211> 143
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-D7

<400> 33054

gaaatgactt gtgtatgaca taggatacat ggtatgacta taagtactaa aattaaaac 60

gggggctatt attctgaatt aagaaggaat aaaaatttaa agaattattc tataaattat 120

tttaaaatta aaaataataa taa 143

<210> 33055
<211> 196
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-D8

<400> 33055
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ggggccttgt acacgtacgg cggatccatg catgactaca gaccgacgga ataagtaaac 120
tcaccctaaa actagtcaga gctcactcgc acgctgacgc tcacacttat actacacgtg 180
ctcagtaaga ccacag 196

<210> 33056
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-D9

<400> 33056
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gtcctgtcat taccatggc tgaacacaac caccagctct agcagctcgg agcagctcaa 120
gcatgacgac agaacacgac ggggttcggcg cctacagcca gtaccccaac tacaagaacg 180
actccttgac cgaaatctac tgctccgtct agaacaatta cgtcgagtac attaatgcat 240
tgaaccaacg catgcacaag cagcacactc tgagacgcct atgacatcga ccgcggctcc 300
tccgcactct acgacaagca ctatgcaaag aacgaccc 338

<210> 33057
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-B8

<400> 33057
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aggggaaagc tagtggcttt aaagaaaatg agggatcatc cagtatcgct gttgaatcat 120
ccagtatgga cattgacaaa gctcagtcta ctctacaaa gaaacaatta actggcgtct 180
atgatttggg tgctgtcttg acacacaagg gaagaagtgc agactctggc cactatgttg 240
gctgggtcaa gcaagattac tgaaaatgga tcgagtttga tgattactat ccatacatgc 300
ttaaggaaga agacattttg aaactatctg ttgaagttac tggcacaatg cttatatct 359

<210> 33058
<211> 199
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-E1

<400> 33058

gccagcgcca tggtcacgtc gactaccgcc gacgccgtgc tgtacccgac gtccgtggtc 60
gggcttcgcc tgaagccatt taccggggcg cccaagccg ttccgcccga aaacgggcg 120
ggcgggtccgt ggcggagcgc gcggaactga gcccttcgct ggtgatcagc ctgagcacgg 180
gcgtgtcgat cttcctggg 199

<210> 33059
<211> 433
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-031-Q1-K1-E10

<400> 33059

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tttccaatca gttgatcaaa actctgaata tcactaaaga tggctcaagc agaagcattg 120
atgttctctc tgattcaaca gcacaagaat catttttggg ggcggatgaag ccagtggtc 180
gtatcaatgc atgcttggcc gtagggaaag atatgctcta cttgtatgga ggaatgatgg 240
aagtgaaga tagagaaatt actcttgatg atctatattc acttaacctt agcaaacttg 300
atgagtggaa gtgtatcata tcggcctcag aatctgaatg gttagaaatn tctgaagaag 360
aggaggatga tgatgatgag actgatgatg atgaaaatga agagggggat gctagccaga 420
cagatgaaga tga 433

<210> 33060
<211> 268
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-E12

<400> 33060
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 gacgattgtg gagaagtgca ctcttaaact agtcgatgag tacaagcaca tgctgtgcca 120
 ggccactgaa ccactatcta cgtttttgca gtatataact tatggccaca tgattgacaa 180
 tgttgtcctt attgtaactg ggacactgca tgagagagat gttaacgaac ttttggagaa 240
 atgccacca ttgggcatgt ttgacagc 268

<210> 33061
 <211> 192
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-E3

<400> 33061
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 gcttttgtgg ccctccgctg ctacttaagc tctccgccg tacacggctt catctctcat 120
 ggcaactcgt gtcttctgat agctgctgct atatctactt cactaaccta agaagcgtct 180
 gtaggtctgg at 192

<210> 33062
 <211> 248
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-E6

<400> 33062
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 tctaaactgc gtttcttaca cttgcatccg aaacaatcaa ctttactctc ctttctaccc 120
 actgattaac ttttaataact ctcaaagtat cattattaca cttactccct cactcatata 180
 ataattctac accaataaca tcatttcaca aaatcttact acatttcac tcaacaaata 240
 cttcttta 248

<210> 33063
 <211> 424
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-E9

<400> 33063

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ggttctggag ggagtgtcat catctcacca ttgggaacag tgttggcggg tcccaactac  120
gaaagtgagg cccctctcac tgctgacctg gaccttggag agattgttcg agccaagttt  180
gattttgacg tgggtgggcca ctactcgca cctgaggtgc tgagttagt ggtgaagagc  240
gatccaaagc ccgccgtctc ttcatctca tccgctggta gggacgatga ctatgtgcag  300
acctaataac aaacatatct tcggtcttta gcttccttat actgcaatcg catgcatctg  360
tataattgtg ggtttccgga acgttgcacg ttccgttaga ataataataa actggtatgt  420
acaa                                           424

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<210> 33064

<211> 199

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-G4

<400> 33064

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ggacatccac tccatggacg agcgcgagcg ccagctgcat caccgtattc tgggataccc  120
atgcatgccc aagcaagaat gaccactgac gctagtctcg ggggccgtac ggcgacgtgc  180
acggccacta gcgacctgc                                           199

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<210> 33065

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-G6

<400> 33065

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cggctcgacc ttcacgcggg taacaggttg accgtccgcy gattcaccgt atccccggat  120

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acgcatgggt tccaaagcgt acttccgtgt cacgctcctc ttgctgctcc tcgtcgacgc 180
cgacgcggac tggggacctg ctgcacaggc cgacgacgct gctgagctcc cggatcatag 240
agctattacc ttgaaagagc aggtttcttc gaccaagatt cctgtccggc tcaagagtgg 300
cagcccgtg tgctcaacct gggaaaactt cacgggccaa 340

<210> 33066

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-G7

<400> 33066

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gccgggtggt ggacacagatc aggcggccgc catggcggat cagttcgcgg attcggcgaa 120
caacgtgatc atcgaggagg tgaacaaggc cctgaacca ggaatggtgg ttctgctcgt 180
ggttgccagc ttctgctgc tcttcttcgc cgggaactac gcgctgtatg tgtacgcgca 240
gaagacgctc ccgccgaaga agaagaagcc ggtctccaag aagaagctga agagggaaaa 300
gctgaagcag ggggtctcgg cgccagggga gtgaacagac aaggatgccg gcgatccggc 360
• cgtcctgagg cccgcccta ttacatg 388

<210> 33067

<211> 84

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-G8

<400> 33067

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ggttagggca ccatgtgcat tgac 84

<210> 33068

<211> 194

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-G9

<400> 33068

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tctgacgttt gcctacctga tcttcagggt gactaggatc aagcttacag gaaaatcagg 120
cttctgctg aagatgtgca gggcaagaat gttcttaca actcttttgc gttgaatttt 180
accactgata aatt 194

<210> 33069

<211> 259

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-H12

<400> 33069

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ggattatcca aagggacggt cgactgtgat cctaactcaa taactcgagt tgtagcacgc 120
ctatagcaac acccaatgat tgctaactat gattgtacct tacataccca gaagaatctt 180
tcgtcgcacg ctaaataaat actaatgtcc aaacaactaa tctctattac caattgtgtc 240
aatagactaa tccattcat 259

<210> 33070

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-H5

<400> 33070

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acatgatggc ctgtcaattc tgcttctgag agctacagtt tggctgatgg ttcagttgaa 120
tcctatggag gagaaggaat catgccacct tcaagctact tcatgacagc cagatcagat 180
cacaatttaa aattcagtgt gcatgaacag gattccacta tgcttccaaa cgaccaattg 240
acctatgctg gcgctaggca gactgatcta ttacctggcg agactccatc taaggataag 300
ctttgtgaga atcttctgga gctttaacga ctgcagaata acagcagcct accgagttaa 360
ttaatgcccc caagggtact tcagcacaat tcaaca 396

<210> 33071
 <211> 293
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-030-Q1-K1-H6

 <400> 33071

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 agggcacctg cgttatgttt caaccgatct gccgacctaa ccaaactttc caccgggac 120
 tgtcttgcca ggccatccct tcgatccaaa cggaccttcg atgccaacgt ttcgacctac 180
 cgaatatttc aaatcacggt ataagtagtg gtactttact agcgcccgga tgctactact 240
 tctctacac ctctaaagat aactacacat attaagactt tttgtcaaac tca 293

<210> 33072
 <211> 258
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-030-Q1-K1-H8

 <400> 33072

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 ccatccaacc tcttacgccc tgacttgat ccaaaaatat atcctttgcc ccaatttcaa 180
 cccacgtaat aagtttaata accacaaaat tagttatatt tcacttacac ccgtatgctt 240
 ccacttattc tacacctc 258

<210> 33073
 <211> 209
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-030-Q1-K1-H9

 <400> 33073

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 gagacacatg ccagaccttc taacatatcc aatcttacct tcccatccat gcaacttact 120

atatcttcta tcctgatccc tacattacaa tccaatgcac gatgtctaca acattgtata 180
 ctgcaaaaac cctaccctca cccaactta 209

<210> 33074
 <211> 220
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-A1

<400> 33074

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 cattgactcc accactgggtg gttttgaggc tggatatctcc aaggatggcc agaccctga 120
 acatgctctc cttgcgttca cccttgaggt gaagcagatg atttgctgct gcaacaagat 180
 ggatgctacc actccgaaat actccatagc acgttatgat 220

<210> 33075
 <211> 289
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-A11

<400> 33075

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 aagtctgcct cccttcttgg gcatgtttac cgactacagg gtgaacgtat tcattacagc 120
 agcacctaac atgaccatga ttgtaatcat aatactagta ccagtcgcaa tctcatttct 180
 acagtgttta aacctatcaa tcaacctaac cgactaaggc ctactatgga tgaaggactg 240
 gaatcgtgca tcaatctcgc tcacaattct tacctggacg accgcggaa 289

<210> 33076
 <211> 389
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-A2

<400> 33076

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ggctgccggc gccggcgcg agcagggcgt gtggagcatc atcaccggc ccatgttcca 120
 gagcatgctg agccaccgcg gcgacagcgg gtgccagggc gccttctaca cctacgacgc 180
 cttcatcgag gccgccagca agttccccgg cttcggcacc accggcgacg agcagacgcg 240
 caagcgggag ctgcgcgtct tcttcggcca gacgttccac gaaaccaccg gtggatgggc 300
 gactgctccg gatggaccgt ttgctgggg atactgccgg gtgaaggaac agaaacagac 360
 ggaccacccc tactatggac gaggacca 389

<210> 33077
 <211> 393
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-A4

<400> 33077

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 ccggtccatg ttccagagca tgctgatcca ccgtggctac agatggtgcc agggcgccctt 180
 atacacctac gacgccttta tcgaggccgt cagcaagttc cccggctttg gcaccaccgg 240
 cgactagcaa acacgcaggc gggagctcga cgactttatt gtccaaaagt tccacgaaac 300
 caccagtgga tgggctactg ctctgatgg accgtttgcc tggggatact tgccggtgaa 360
 ggaactaaaa cagacggacc caccctacta tgg 393

<210> 33078
 <211> 202
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-A5

<400> 33078

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 acatgctctc cttgcgttca cccttgagat gaagcagatg atttgctgct gcaacaagat 180
 ggatgctacc actccgaaat ac 202

<210> 33079
 <211> 109
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-031-Q1-K1-A7

 <400> 33079

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 ttctcccacg ctaactaaac tttccttagg ggggacttca ccactgggtg 109

<210> 33080
 <211> 96
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-030-Q1-K1-G2

 <400> 33080

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 gggctaaaat caaattgggc ggtggctctt aaatgc 96

<210> 33081
 <211> 204
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-031-Q1-K1-A8

 <400> 33081

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 ctagaacatg ctctaattac attaaccttt cgaattatta catatcattt actgtttaca 180
 cacgatggat tcacccatta ataa 204

<210> 33082
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-031-Q1-K1-A9

<400> 33082

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cgtgaagaag cccaagatta ccgaagtgga cagggccatc ctcaccctca agacgcagcg 180

ccgcaagctc gccagttcc agcagcagct tgagaaggta attgaagcag aaaaggaagc 240

tgcacggcag ttggttcaac agaagaagag agacagagct ttgattgcac tgaagaagaa 300

gaaagctcag gaagagctgt tgaaacatgt tgacacatgg caaatgaatg ttgaacaaca 360

gctctcagat attgaactag caagtaaaca aaaggctgta tttgaaagcc tgaaagctgg 420

aaacgctgcc cttaagtc 438

<210> 33083

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-B1

<400> 33083

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atgtcatccc aactccgcct cgaccggatc tcgtcggact cggatccgcc cgaccacccc 120

gcgccgccgc agatcaaaga agatggcagc tgtcgacaca ttctcttca cctcggagtc 180

tgtgaacgag ggacaccctg acaagctctg tgaccaggtc tcagatgccg ttcttgacgc 240

ttgccttgct gaggaccctg acagcaaggt tgcttgtgag acctgcacca agaccaacat 300

ggtcatggtc cttggtgaga tcaccaccaa ggccaatgtt gactacgaga agattgtcag 360

ggag 364

<210> 33084

<211> 263

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-B3

<400> 33084

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actgagcgggt caacaatcaa cgcagcactt gaagcccgaa cgcgtaaaag ctacagcttc 120
gcttgaccca atccctatgc tttaacgcga agcttcattt gacggaccac tacagacact 180
gataggacaa aaacatttca gccaatctgt gtcgacaaag acgagtttca acagcgatga 240
tcctaactaa acaaggtgta tta 263

<210> 33085
<211> 260
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-B5

<400> 33085

ccgacgcttt gtccgacacg tgatttctgt tctacacgag atcatattaa gacaactgcg 60
agggttatta acaattctgc cgcactatac aaacttccca cctcacagaa tctcccgacc 120
agataatgca atcaagcccg atcaatccag ccaagacgat attactgtcc aaaattacga 180
acctcgctat acatataatc acctacatac ttgaattaac tcactagatc ccgaaagtgc 240
actcgctact tacagcta 260

<210> 33086
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-B6

<400> 33086

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gagggactcc accactggtg gttttgaggc tggtatctcc aaggatggcc agacccttga 120
acatgctctc cttgcgttca cccttgaggt gaatcagatg atttgctgct gcaacaagat 180
ggatgcaacc actccgaaat actccaaggc acgttatgat gagactgtga aggaagtctc 240
atcctacctt atgaaatgcg agtacaaccc ctgataagat tgccttcgtt ccataacag 300
gttttgaggg cgacatcatg attgacagcg tcaccaacct 340

<210> 33087
<211> 450
<212> DNA

<400> 33089

cagtttcttg tgccgttgct gtagaaacct tgaagatata taaggaaagg aatatttttag 60
gacacgttaa caaaattgct ccaagggtcc aggaggaat caaggccttc tcaggaagcc 120
caattgttgg ggagatacgc ggtctgggac tgatacttgg aactgaattt gtcgacaaca 180
aatctccaaa tgatccattt ccagctgaat ggggtgttgg ttcgatattt ggcgcgaggt 240
gcgagaagcg tgggatgctc atcagggtgg ctggggacag catcatgctg tcacccccgc 300
tgatcatgac ttcca 315

<210> 33090

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-D6

<400> 33090

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gatccgccgc gtccccggcg gcggcaccca ccgcgccggc caggagcgt tcggcaacat 120
gtgccgcggc gggcgcatgt tcgcgccac caagatctgg cgcaagtggc accgccgcgt 180
caacatcaac ctccgccgcg tcgccgtcgc ctccgcgctc gccgccaccg ccgtccccgc 240
cctgggtccag gcgcgtggcc accgcatcga gactgtcccc gagatgcccc ttgtcatttc 300
cgacttcgcg gagtccattg agaagacctt ccaggcgctc aagatcctta agcagatcgg 360
cgccac 367

<210> 33091

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-D7

<400> 33091

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tccgctacgt acgatacgtt gcagaaccga agacactttg gacttggtat gaacctata 120
tcaaggatga cgaggagttt gcacctggat caaatcgtaa agtgactaca atgggcgttt 180

atgtgcgtga tctcctcctt ggtcagtact atttcgacag tctccttcca cgagtgcctc 240
 tcccaatcct ccgacaggtc actagccacc ttgagaagct aaagctttca acaagcagtc 300
 aagaatgact ggggattcca acaagcttga atcaaatgat a 341

<210> 33092

<211> 157

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-E1

<400> 33092

aacacgcgtt caatattagg gtcaaaaatt aataaaatag ctaaccactg caacgggacg 60
 tgcaaattcc gaatatcagc tgtaatgcaa ctacacaggt caactacacc gattctgact 120
 ttaccgtgga taatatactg gatataactg actctgt 157

<210> 33093

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-E11

<400> 33093

cccacgcgtc cgcagctgac ctgtatgaaa ggttctgcgc tccggttggc agcctgttgg 60
 gggccggcga ggctgcctgc attgaccact ccggatcggg gcacggagct tactcgtcag 120
 gcatcgctgc cgcagaggac tgccgaaggc gtctgtcggc gcagctaggc atctcggccg 180
 gcctgttcca ggtcgggaag gctgccatga gggaggagat gacggctgaa gccatggtcc 240
 ccttccagat attcaggctg tgagagagaa tctattcaac accgtctttg tgtcaccggt 300
 ttgttgcttg atgtaattgt aaaatggtgt aagaccttgt ttgctggaat attcgatggt 360
 ggatgctgat tatcgtcagg taaacaaccc aaaaatttgt t 401

<210> 33094

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-E2

<400> 33094

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 tcctacgcga gggcgaaacc cacaaccct ctccctcccg tactccggcc tacacatcca 120
 ggggcatga cgctgggtag ctccggcgcc ggatcgagcg tcgtcggtcc ccgaaacttc 180
 aggctattag aggagctcga gcgtggagag aagggcattg gtgatggaac agtgagctat 240
 ggaatggatg atgccgatga catctacatg cggtcatgga ctggtaccat cattggccct 300
 cacaatactg tacatgaggg tcgcatctac cagctgaagt tgttttgtga caaggactat 360
 ccggagaagc caccatctgt cagattccac tcaagaatca acatgacttg cgtaaatcac 420
 gagacatgaa tggttgat 438

<210> 33095

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-E6

<400> 33095

caacgagaag gtgcaggacc tgcttctgct ggacgtcact cctctctctc tgggtctgga 60
 gactgccgga ggagtgatga ccgtccttat ccgaggaac accaccatcc ccaccaagaa 120
 ggagcaggtg ttctccacct actcggacaa ccagcctggt gtgttgatcc aggtgtacga 180
 gggtgagagg acccggaccc gcgacaacaa cctgcttggg aagttcgagc tctccggcat 240
 cccaccggct cctcgtggtg tccccagat caggtctgc tttgacatcg acgcccacgg 300
 cattctgaac gtgtctgccg aggacaagac gacggggc 338

<210> 33096

<211> 70

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-E8

<400> 33096

taccggtacc aaatactaac aaactattta aacaaccctt ccactaaaag acatcattga 60
 tgctaattgta 70

<210> 33097
 <211> 342
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-030-Q1-K1-E9

 <400> 33097

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 gcggtttcgt gggtgagcgg atcgagatgg cggcgtcaga tggtgagtac cgctgcttcg 120
 tcggcggcct cgcctgggcc acggacgacc actccctcca caacgccttc agcacctact 180
 gcgaggtcct cgagtccaag atcatcctcg atcgggagac gcagaggtcc ctcggttcg 240
 gcttcgtcac cttctccact gatgaggcta tgcggaacgc catctagggc atgaactgca 300
 tggagctgga cggtcgtaac atcacgtca actaagccca tt 342

<210> 33098
 <211> 190
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-030-Q1-K1-F1

 <400> 33098

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 gattacgtta gaataagaag atgtatatgt aaataaaaaa aaaaaaaaaat aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaacatt aaaaaatata 180
 caatttaata 190

<210> 33099
 <211> 237
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-030-Q1-K1-F12

 <400> 33099

 tcgcccactc gtccgtccac gcgtccgat agttagagag agagagagac aggatcgatc 60
 gagagacggt catgtccttt tggctgtttg gtttattcat atcacaactt ttgagtgtat 120

acaagattat ttatgtggca aacctcaaag attgtaaggc gatacatgcc gaaaaaaaaa 180
aaccttgcgg agttaggata ttcacggttt taatgttcgt ttgaaccttg tttttca 237

<210> 33100
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-F2

<400> 33100

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ggcaataata taccaggttt cacgagtgcg ggtgtgagat tggcagcctt tcctgggcct 120
ggtgtgaaga aagtgaaaaa gattgtcatc aagaagattg ttaggaagat tggtgccaaa 180
gataaacaaa ctagtagttc aaccgtccca gaaaaggaca tcattgatgc taatgtaaat 240
gcctctgaaa aagaagaagc taatgcaaat gtttctgaga aagaagaaag tgagatcaca 300
acatcatctt ttgagaagga tgctatttct gcacacaatt tggtcagtac tagtgataca 360
gctggagttg ttaacagtgt ggaggtccaa aaggaacaaa atagtgattt ggtaaactctg 420
aagaaaacaa tgc 433

<210> 33101
<211> 244
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-F3

<400> 33101

gacagtctct ctgcatgtgt ccgtgctgtg cagagtgtgt gtcagaacta tagcagtggc 60
ggttgcgtac tgcgagtgcg atgggctcaa ttaagagatc gtcactctgt ctgggtggctg 120
tagtggtgct cgttgccccg tgtgtgccgc tgaagattgt gtctatgatt ggcttcatat 180
actatgacta tctactctca tgtatagcag aatgggtcct ggtatatcaa gcatgttaca 240
gtct 244

<210> 33102
<211> 203
<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3068-030-Q1-K1-F4
 <400> 33102
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 atttaacctt cataatgctt tccacattaa attcattata ccataatact attaacatat 120
 cttaccctaa ataaatacct ttttactaac ccagtcata aacatctatc caaacctaac 180
 atcatttgtc atctttatct cat 203

<210> 33103
 <211> 307
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-D1
 <400> 33103
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 tatgggctca tataatctga tataggatga ctgacgtac ctgatactct tattaccggc 120
 gacatattag agctaatact tgcataacac cttgacatgc ttgaagagcg cattaacttg 180
 ataaatagct gacacggact atgaccgctc aattgatgat acataatcac ttaaccgatc 240
 gcaaggtcta cggacacgag acgcatcata catatctcta gcctatcaac tttagatagt 300
 aacattg 307

<210> 33104
 <211> 400
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-030-Q1-K1-F6

<400> 33104
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 taaaatatct attatgtctt agtacatgat ctccatctnn tatcttagag aagaggtctn 120
 nctcttann tcttaagtgn gatggtcgat cttaaactct gaatnaata tttctatctt 180
 aatttcaaat tctgatcctt tagatccac tctatatcta taccatgta agttatgata 240

tatgcctggg cgacataaat aaaatattag tgcccattta attctatata accatnnntc 300
 ttatccctaa attaataccc tttggactta atcccgctccc ataatacaac ataccctaac 360
 tctacattcc ataggtttgg tctaaatcca attttgtttc 400

<210> 33105
 <211> 241
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-G1

<400> 33105

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 gttctagaga aatgatgtca ttctcttcaa tgctgctaaa gggggactca acactgtctt 120
 aaaatgacgg tagacgtgtc taggtcagta ataagagtgt gtaaaatctg aatgagatac 180
 gaatacctct gcaatgatga aaatctaata atgcgcgtat ctcattagat aacaaggcgg 240
 t 241

<210> 33106
 <211> 347
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-A12

<400> 33106

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 gaggtacgtc tacatggacg agtaccctgt caccactgag ctccagaacc gctgcgtaaa 120
 catgatagct cacctgttca acgcgccgat caaggaggac gagacagcta ttgggggtcgg 180
 aacagtggga tcctcggaag cgatcatgct tgcaggtctg gcgttcaaga ggaaatggca 240
 taacatgagg aaggagcagg ggaaaccgtg tgacagaccc aacatcgtca ccggtgccaa 300
 cgttcaagtc tgctgggaga agtttgcaag gtattttgag gtggagc 347

<210> 33107
 <211> 353
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-A2

<400> 33107

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caagtgcgtg agccagaacc cgagcgcagt gaaagaggaa gcaccagaag ctgaaccgga 120
tttgctgggt ctgaacgaac cgaaccctgc tgcaactgcg atagaagagc agaatgcttt 180
ggcgctagct attgttccga tagatgatgc tccgaaagct gctcccactt ttggaaatgg 240
agtcactgtc tgggaacttg cccttgtgac agcaccaagt tcaaatgaga cctccgttgc 300
cccaagcaag atactggccg gtggtcttgg acttgctgac tcttgacagc ctg 353

<210> 33108

<211> 72

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-A3

<400> 33108

aaaaaaaaaa aaacaaaaaa aaaaataaaa taaataaaaa aaaaaaaaaa aaaaaaagaa 60
agggggccta aa 72

<210> 33109

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-A4

<400> 33109

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tgaccctgaa ccacagccac tgacatatga atcaccagaa actgaaccga attcgtgtga 120
tctgaactaa ccaggctcta ttgcaactgc aatagaatac cagaatgctt tggcactagc 180
tattgaatcg attgattatg ctccgaaagc tgctaccact tttggaaatg gactcactgc 240
ctgccaactg gcccttgtga cagcaccaac ctacatgag accgccgttg cccaagcac 300
gatactggcc ttaactctgc acttgctgac tcttgacagc ctgcactact aggctaaccg 360
tacagcgagc cagcc 375

<210> 33110
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-A5

<400> 33110

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gggcgcggat cgtctccaga gggactcagc agggaggatt ccttacgccg tggcgtgaa 120
gcgcaaccac ggggcgtgcg cggcgctgct gaaccgctcg gcggcggagc ccatggtgtg 180
gccttccccg ctcaagttca tcagcgagct ggaccggag gcgaaggctc tcctggaagc 240
ggcactgatg gacgccaata gggagaggga ggagaagatc ctcaaggga tcaccaagta 300
tccgcaggca tcgcctactt cgccttgcca gcacgatgcc attgacgaag 350

<210> 33111
<211> 430
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-030-Q1-K1-A6

<400> 33111

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agcgccgccg ggcgggtgga gttgaacgcc gcgccgccg cgtccaggca cggcgacctg 180
ccggcgccgc ccagcgagcc gcagaactcg cccgcggact gccacagggt aacggatgta 240
gagacgacgt gagtatcact ggtttaatca tagacgttac cttgtaatgg cgtgatcatg 300
ttcattttgg agtgtgggta gtcccctagt tttttataac agcgaatctc tcgtctacgc 360
ctccaaatcg tcgaagccgc acctaatgac ctncataatg gcaaatttct ctctatcagt 420
ggagcaacca 430

<210> 33112
<211> 401
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-A7

<400> 33112

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gacctggtca ccacaatgcg agaaccctcg cctcggcctt cttgggggtct ttcgctgggtg 120

ctcgctccgat gttgggggctc tgaagggttg ggctgctggg ttggtgggtc ggcggacgac 180

atgaggtctt cggaggaaac tttgcttggt tgggtaccagg cgagcggcga cgacttttcg 240

atgtcgtctc tccttcttga aggcgcggcc caaaagacct ctagtttgtg tgttcgctcg 300

cgttgtggag gctctttgtc actccgcttg gctcgggtgt gtctgggtca ttgtcgcttt 360

aagcgtctgc ttgggtccca agttcggcgt tgtggatctt t 401

<210> 33113

<211> 143

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-A9

<400> 33113

tctaccatgc ttacctctct cttatccaga accacatcca caacaagggc ggggtccctta 60

accccaactg ggggcatatt aatcaccaga aactgaaacg aattcaatct atctcaacga 120

acctaactct attacaactt caa 143

<210> 33114

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-B1

<400> 33114

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gactaaaatc aatcacgggt aaacaatata atagatacta taactatata taaagaaaca 120

ctaatacctga gggctctaatt atttacagca cctgatttta ttacgagat tttcactgac 180

cctatttact atatagctac acctaagttc aatgtaacgg ccttggttta atcagctcgg 240

aatgaagaaa ctcttgagct tgcctatatt actactttgt gaaatgactc cctttgtgta 300
 ggttgactta taacctaaag gcccaagtca aataccacta cctataacgt tatcatactt 360
 attgccaatg gcgacagccc ttcacccgcc c 391

<210> 33115
 <211> 384
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-B12

<400> 33115

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 cactgcatg ggccggcacc cccatcaagg tgggttcctt cggcgagggc cgcacacca 180
 tgcatgac cgtgtgcaag cccaaggctg ctgcgtccgg cagccccctgg tactgtccct 240
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 tccccggcga ctactgtgg gacaccgtca ggctgtccgc ctaccccgag acattcgtca 360
 agaacctgca gctgtagggtg atcc 384

<210> 33116
 <211> 73
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-B4

<400> 33116

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 gactctatat cgc 73

<210> 33117
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-B6

<400> 33117

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 ggcaagagggc aggtcatgat caggccgtca tccaaggcca tcatcaagtt cctgacggtc 180
 atgcagcgcc atggctacat tggagagttc gaggtagttg atgaccaccg atcgggcaag 240
 attgtggctg aactcaacgg gaggtgaac aagtgcggcg tcatcagccc tcgctttgat 300
 attggcgtga aagacatcga gggatggact gcaaggctgc tcccgccag gcagttcgga 360
 tacatcgctc tcacgacttc tgcaggcatc atggaccacg aggaggcccc cgggaagagc 420
 g 421

<210> 33118
 <211> 435
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-030-Q1-K1-B7
 <400> 33118

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 gccggcgtgc tcgtgatctc aaccaaggcg tgtctccgtc ccggtcaccg gtcactccac 120
 gcaaacatgt cgaggaggaa gaccagggag ccaaaggagg agaacgtcac ccttggaccc 180
 actgtccgtg aaggagagta tgtctttggt gttgctcaca tctttgcac cttcaatgac 240
 actttcattc atatcaccga tttgtctggg agggaaactc tgggttcggat caccggtggc 300
 atgaaagtga aggctgaccg tgacgagtcg tcaccttacg ctgctatgct tgctgctcaa 360
 gacgtcgcac agcgtgcaa ggagcttggc attactgcac tgcacattaa gcttcgtgcc 420
 accggaggca acaag 435

<210> 33119
 <211> 366
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-030-Q1-K1-B8
 <400> 33119

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agggccggcg tgctcttgat ctcaaccaag gcgtgtctcc gctccgggtca cccgtcactc 120
 cacgcaaaca tgtataggat gaagaccatc gagccaaagg acgagaacgt cacccttgga 180
 cccactgtcc gtgaaggaga ctatgtctat ggtgttgctc acatctttgc atccttcaat 240
 gacactttca ttcatattac ccatttgtct gtgatggaaa ctctgcttcg gatcaacctt 300
 ggcatgaaag tgaaagctta tctttaccta gacttcaact tacgcttgct attcttgctg 360
 cttaat 366

<210> 33120

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-C1

<400> 33120

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 gctcctgctc gccgtcacct tcttcgacgc ctccgtaac gagcaagccc aggcgggtcat 120
 agaggagaag aaggcggagg tccaagactg gcacggcggc ggcggtacc cggggcacgg 180
 ctgcggcagc agcggaggct accctgggca cggcggcggc ggctgcagcg gctacccgca 240
 ctgccggtgg ggctgctgca accgcgggta ccatggcagc tgccggtgct gctcgcaccc 300
 tgatcagata ccagagccca tgtaccgtcc tgagctcgtc gaggtccaca actaaatagt 360
 aatgagatgc gctgctacta tatatacggg tacgtatgcc ctatgggaaa cagagcacac 420
 gcgtagtacg c 431

<210> 33121

<211> 56

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-C11

<400> 33121

cggactcgtg ggaaaaaaca aaaaaaaaaat ttaaaaaaaaa actcaactaa aaacac 56

<210> 33122

<211> 330

<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3068-030-Q1-K1-A10
 <400> 33122

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agggcagcaa gccctctggc gacgactcgt acgccggcgg cggctgtggc gggtagggca 120
agcagtccgg tggaggcgcg gacgacgact gagagtacgg ctctcccgg tacgactcgg 180
agaagtacag gaaggaggag aaggagcaca agcacaagga gcacctcggc gagatgggct 240
cccttgccgc cggcgcccttc gccctgtacg agaggcacta ggcgaagaag gaccgtagc 300
acgcgcagcg gcacatgacg gaggagggt 330
  
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<210> 33123
 <211> 443
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-030-Q1-K1-C12
 <400> 33123

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gtttcttggtg gcgtggccaa gggcgggtgcc gagcctgtac cagtacgacg actcaggcca 120
gaacacacgg cgtatggtat ggtacacagc aaggccgtgt tgttgctgta agttttgtaa 180
tttctgtttc cttcttctcg gcttcgcagc atgcagttgc tgtatatgat ggaagaacac 240
tctgttactg ggcattgtgc gcggtttcca cgcgtgtaag taatgtagaa gtcgctatgg 300
taggtatttc cataccgtca ttagtggatc attgaatttt ttgtaagaa ggttattgca 360
atgccctttt tccgggcatg aataagaaaa aggaaatatg cttatatgca tggtattaat 420
aaaaaaaaa aaaaaaaggc cgg 443
  
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<210> 33124
 <211> 325
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-030-Q1-K1-C3
 <400> 33124

[illegible]

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<223>      unsure at all n locations
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<210>	33126
<211>	135
<212>	DNA
<213>	Zea mays

<400> 33126

<210>	33127
<211>	206
<212>	DNA
<213>	Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-E11

<400> 33127

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gcggtacaaa gatcagtacc acgagccgtc taccaaaagg aggaagctcc cattcaaaaa 120
gtgcatctgc acaccaacaa tgcttgatct atttacttcg catcatgact ccctgcattt 180
tagctaccga caaccctatt ggcta 206

<210> 33128

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-E3

<400> 33128

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cgtcgctgat tctcggcgac acccgctctg tgtagctcc cggagcagg cgcggggcac 120
ctggagggtg ggagggcggt ggcttgggggt ctaggggggt ggaggctctg cgctcgcctt 180
ccttctgca cgacgaagca ggctgcgcct cctcaacgcc atccagcgag aaggatggta 240
tatgaatgca tacaacctaa gcgatgagat tcggtgacct cccttcgtgg gtagtcgaac 300
tttctgcact tattcgcgaa gctatcttgc gtgtgcgacg ccggtgtcgg tcttggtg 358

<210> 33129

<211> 198

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-E4

<400> 33129

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ctggagggtat acctatccag cattgatcca gggaccacgg tgactgtgaa gtgacatgga 120
aagccagtct tcatcagacg ccggacggac tacgacatct atctggccaa cagtgtgtat 180
gtggcatcct tgcgccac 198

<210> 33130
 <211> 204
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-029-Q1-K1-F10

 <400> 33130

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 ggtccactcg tcttctctct cctgcttctt gcccgcgtccc ttgccggctc gtggggaaaag 120
 gagggccaca tcatggtctg caagatcgcc tagatagtcc tgtcggataa ggcagttgct 180
 gctgtgaagg cgtttctgcc ggag 204

<210> 33131
 <211> 149
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-029-Q1-K1-F11

 <400> 33131

 tcgagatatt ctgggccttg aggatcactt tggtagcatg gacttcaaaa ttgcaggagc 60
 aagggaaggt attactgcta ttcagctgga tataaaacct gctggaatac cattggacat 120
 aatatgtgaa agtttatagc ctgcactta 149

<210> 33132
 <211> 342
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-029-Q1-K1-F12

 <400> 33132

 gtaaaaccat ctccacaacc agtacagttg gaagttagct gagatttttg caactggagt 60
 ggggcttggt gggtatttgg ccatgatgac tgtcattttc ttctgggctg catacaagac 120
 tgacttcttc ccgcggctgt tccacgtcga aagcctttag aagaccgtcc aggatgactt 180
 tcagaagctc gcatctgccg tgtaccttct agtcagcact atcatgcagg cccttatctt 240
 attgactcgg tcgcgcatct ggtagtttgt ggagcttact ggggtcttgc tggatttagc 300
 tttcttggtg gctcagctga tcgtcactct gatcgctgta ta 342

<210> 33133
 <211> 289
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-029-Q1-K1-F2

 <400> 33133

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 gtgtcaagag acgaaacggt cgacatggct cgcacgcaat ctgccgtagc ggtcgccgtg 120
 gtggccgcgg tgctgctgct ggcagcggcg gcgacgacct cggaggccgc catcacctgc 180
 gggcaggtga gtcgcccat cgcgccctgc ctctgctacg cccgcggcac ggggtccggc 240
 ccctccgcgt cctgctgtag cggcgtcagg aacctcaaga gcgccggca 289

<210> 33134
 <211> 213
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-029-Q1-K1-F7

 <400> 33134

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 tcgggcctgc gaggccagtc cttggagcca aaatgagggg cagtgccccg cttccgaccc 120
 acggaataag taaaataacg ctcaaagtgg tggtatttca cttgcgccac gaggctccca 180
 cttatactac acctctcaag tcatttcaca aag 213

<210> 33135
 <211> 71
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-029-Q1-K1-F9

 <400> 33135

 tcgaaaaaaa agaaaattaa aaaaaaaaaat attaaanaaa aaaaaaaaaa aaaaaaaaaa 60
 aaagaggggaa t 71

<210> 33136
 <211> 304
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-029-Q1-K1-G7

 <400> 33136

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 tcgggatttg gctcagagat ccatgccagt aacaggtttc aatccctcag gtgctagatg 120
 tgggcacatc acttcagaat ctgttcctgg atgatgtaac tgaaggagac acacagtggc 180
 aaagagtcaa tgctttttaa cattgatgag atggctctca gcttataatt gttgtatctg 240
 tagacatgca tgctccatta taagggtgtga gcgagcttgg agaatttccg attgctcatg 300
 aaag 304

<210> 33137
 <211> 178
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-029-Q1-K1-G8

 <400> 33137

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 ctacagtgc aatcctcaac acaagcaacc agcaaccatt tgtcaatcta tttgctccag 120
 gaaaccctgg tctgacacaa tccaagaatt ccatggctga ttcaaacgca ttatccag 178

<210> 33138
 <211> 143
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-029-Q1-K1-G9

 <400> 33138

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 gcttcttcta gctcgtttca tgatccatgt tctgtggaga agctccacca ccaccacctg 120
 ttccaccaca tgtaggacta gga 143

<210> 33139
 <211> 333
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-H1

<400> 33139

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 tccgaccctg agaagaagga gcggtgcag ctggcggaga tcaagcacgc gcggtcgcc 120
 atggtcgctt tcctcggctt cgccgtgcag gccgtcgcca ccggcaaggg gccgtcaac 180
 aactgggcca cccacctgag cgacccgctc cacaccacca tcttctacac gttcttgagg 240
 gttctcttaa gcccgccatt gctccgtccc gttcattgac cggccggaac gtgttcttgg 300
 attaattgtac ttcgatcttt atgagcctgg gga 333

<210> 33140
 <211> 319
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-H10

<400> 33140

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 caaggagaag tatgggaatc caacgatcta cataacggag aacggaatgg accagcctgg 120
 aaacttgacc cgagaccagt acctgcgcta cgccacgagg gtgcggttct acaggagcta 180
 catcggccag ctgaagaagg ccatagacca tggagcgaaa cgggctggct acttcgtctg 240
 gtctcttctc gacaacttcg agtggctggc aggttacttg ttcaagttcg gcattgtata 300
 cgtggacttc aacacgctc 319

<210> 33141
 <211> 77
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-H11

<400> 33141

gcgccacttg ccagctagag ccataccttaa tatcttcgag ttactgagag tgtgcgtggg 60
agagaggatg ggtggca 77

<210> 33142
<211> 317
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-H12

<400> 33142

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aggatggaga agttgatgca tatgtatccc ctcataagga gatagaccca cacaatgcag 120
cacccaagcg aaagaaagcc aggttcatga taccaaagag tgctcaggtg gacagtgagg 180
tgcgccgcga gctgcaggag ctcatggacg ctagggaggc attcatgttc tttatcctgg 240
ggcactcgta catgaatgcg aatagcgggt cgagttttat taaacgtatt gtgataaaat 300
tcttgtacga gttcttg 317

<210> 33143
<211> 208
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-H2

<400> 33143

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caagggtccg agatccgcct gcgtcaggta acggtcctat cttgatctcg tagtggcacc 120
tgcgcttga tgtagggatt cgggtggagga tggcgtgaag gctgtggggc tgatctacgc 180
ctttgtcgcg cgcggcatcg cgggtgctg 208

<210> 33144
<211> 297
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-E1

<400> 33144

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tcgcgcgaac catcgagttt ttgaacgcaa gttgcgcccc aagccttctg gcggagggca 120
cgtctgcctg ggcgtcacgc caaaagacac tcctaacacc ttcccgcggg gcgagggacg 180
tggcgtctgg cccccgcgc cgcacggcga ggttgtccga atcatgggct tactgcgaac 240
cgcgccgggc gcagcacgtg gtgggcgaca tcaagttgtt gttctcgggtg cagcggt 297

<210> 33145
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-H3

<400> 33145

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aggggagcca gtgatcgcca tgtcggactc ggaggagcac cacttcgaat cgaatgccga 120
cgccggagcg tccaagacct acccgtagca tgctggcacc gttctgaaga acggcttcat 180
cgtcattaag aaccgtccct gcaaggttgt tgatgttatt acctttaaga ctggtgagca 240
tggccatgcc aaatgccact ttgttgccat agacatattc aacgggaaaa agctcg 296

<210> 33146
<211> 298
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-H4

<400> 33146

cccacgcgtc cgcccacgcg tccgcccacg cgtccgggtcc tccgcaaaac cctcctccat 60
gcgccgcctg ccgccgccgc ggcgggtcccc tctcggatct ctccctcct ccgcctcatc 120
ccctctgcat ctttttctga ggtaagcgga ggtggggaag aatggggcgc ctctcaccc 180
ggaggcgggc gcggcagggg tgggggtggg aactaataga gctccacctg gtgtaccggc 240
ctcaccaagg accatttcga cggatcctcg cccttcgtca gtcgtactgt cccttccg 298

<210> 33147
<211> 219
<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-029-Q1-K1-H6

<400> 33147

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acccttcggc agcggcgccg gccgacgacg cggcgggaccc ctctcggatc tcttcctcc 120
tacgcctcat cccctctgca tctttatctg agagaagcgg aggtggggaa gaattgggag 180
ccttctcacc cggaggcggc agcggcaagg gtgggggtg 219

<210> 33148
<211> 112
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-H7

<400> 33148

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aaaagagaaa agggaaaaat taatgaaata ataaaaaaa aaaaggcgcc cc 112

<210> 33149
<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-H8

<400> 33149

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ggggcctgcc gccgcgcgg cgggtccctc tcggatctct tccctcctcc gcctcatccc 120
ctctgcatct ttttctgagg taagcggagg tggggaagaa ttgggcgcct tctcaccctg 180
aggctgcggc ggcaggggtg ggggtggaga accaatgtat ctttgactgt gattccggcc 240
tcaccaatga ccatttcgac ggatcctcgc cctccgtcta tgcgtctgtc ccttc 295

<210> 33150
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-A1

<400> 33150

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tgagccagaa cccgagccag tgaaagagga agcaccagaa gctgaaccgg atttgctggg 120
tctgaacgaa ccgaaccctg ctgcaactgc gatagaagag cagaatgctt tggcgctagc 180
tattgttccg atagatgatg ctccgaaagc tgctcccact tttggaaatg gagtcactgg 240
ctgggaactg gcccttgtga cagcaccaag ttcaaagtag accgccgttg cccaagcaa 300
gaaactggcc ggtggtctgg acttgctgac ccttgacagc ctgtacgacg aggcgaaaccg 360
gagagcgagc cagccagcaa gctacaaccc ctgggaggcg acccccgacg cgctgcccc 420
gatgatgacc a 431

<210> 33151

<211> 190

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-G8

<400> 33151

aaaaaaaaa cattttttat tttaaaaaa aaaaaacaca aaaagggaaa ggttaaaatt 60
aaaaaatgga caatccaaaa ctacgcacct cacactggct acccctctta tagatccacg 120
tttattacac ttctatccat tattaaactc ttttataatt tatccaaact tcaattcatt 180
gacctaactt 190

<210> 33152

<211> 289

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-028-Q1-K1-G9

<400> 33152

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gtagcaatag caggggtgac cgttgcttgg gtttggtgac ctgcgtagca ctaagattg 120

tgtatctaaa gctgtaggga ttcatgttca tgcgattatg cttggatata ccgagtgaca 180
 tcgtcgaaca taaagatgac ttgtacattc ctcttgttca tcgagagtca tgtgactttt 240
 attaaaagaa acaaatacat tgtgatatca atcacgatat atgtttttt 289

<210> 33153
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-H1

<400> 33153

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 gcacagtatc aaagatcttt tagaagcaca tactcctccg gggggtcgat taggacgtgg 180
 gcataaaggc ctttatgata caatcaataa ttcgattcat tttcaattag gccttgctct 240
 agcttcctta ggggttatta cttccttagt agctcaacat atgtactctt tacctgctta 300
 tgcattcata gcacaagact ttactactca agctgcttta tatactcatc accaatacat 360
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<210> 33154
 <211> 336
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-028-Q1-K1-H11

<400> 33154

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 gttttgggac atgatcaatc ggggtatgga gnccccacca gaattcaggc cagcaatgtc 120
 tcaaatacgtc caagacctag ctaggattgt aggtgctagt agtgaggat cagagtgaca 180
 aataaaggag gaacagtaaa acatctagct tgccagtggc gtggccagcg aagatcccta 240
 gatccatagc gcagtgccag gggcactcta tctatcagca tttatattgg acgagattgc 300
 ggctagtgtg catgccattt tggagcctca ttact 336

<210> 33155
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-H3

<400> 33155

ggaaacccgc ggcgaccac gcgtccgcta agcccatggt agtggagacc ttttctgaat 60
atcctcctct tggtcgcttt gctgtccgtg acatgaggca aacggtggct gtcggagtca 120
tcaagagtgt ggagaagaag gatccaactg gagccaaggt gaccaaggct gccgcaaaga 180
agaaatgatg tgtctggctg gttctgtgtt tgcttgaggg aaacctagtg gaaacataaa 240
atatctcgtc ttgttcacgt cattgtctga actatgctcg caacgtttgc ctggtcgatt 300
tagaatggtt attttcgta aaaaaaaaa 328

<210> 33156
<211> 379
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-028-Q1-K1-H5

<400> 33156

cggacgcgtg ggcgcgcgcc cgctgtctcc gccggtcgc ccccgccct cccctggccc 60
ggatcgcgtc gtcccgtgtc ctgctgccgc ggaaccctcg ccatggcgga ggcgcccag 120
accgcccgcc ccaccagcc gcctcccgcg ccggcggtt cgtccccgcc tcccaagtcg 180
gggatccgc cgcggtacga cctggacgcc aagtgggacg cgtgcctcga cctctccatc 240
cgccgcgtcg cctactcctc cctcggcggc gccttcgagg gcctcctcct cttccgtagc 300
cctactactc gctgggcatac agntgccctt ggagctggtg tggggatagg ggctgcatac 360
actgaatgct catacttat 379

<210> 33157
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-H8

<400> 33157

gtgagtctga gctgaagagg aggaggagga ggaggagaag cagcagctca cccgggggag 60

ggagagcgaa gatgcgccgc gtcacgctgt tgctcgtcgc cgccgtgtgc gcgctggcgg 120

cgccggctgc cgcggtcgtc actgacggtc ttctcccgaa cggcaacttc gaggatggcc 180

cgtccaagtc ggcgctggtg aacggcacgg tgggtgtcggg cgcccacgcc atcccgcggt 240

gggagacgtc cggcttcgtg gagtacatcg agtcggggca caagcagggg gacatgctgc 300

tgggtgcgtgc cgcaggcgcg cacaccgtgc ggggtgggcaa ctaggcgtat 350

<210> 33158
 <211> 269
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-A3

<400> 33158

gattcttatg cttctttctac ctcccggcct cctccccctt cttctttgcc tgcttggtta 60

gtagctcacc tcacaccaca cagctggcag acagccagac acgcgctgct ttctgatctc 120

tccccggatc ggaggctcct cccaacatac caccctgccg gccgcgccgt cacgtccacg 180

ccggccgggc accaagcaag catggatatg gtttcgcagt ccgagcacct aagctacgtg 240

cgctggacct actgcaacac cgtgctcgc 269

<210> 33159
 <211> 303
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-A6

<400> 33159

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gatgaagagg gagggatggc agcacggcgc cgtccggggc agccgcagca aggtgcttag 120

gacggccgtc ggcgacgaca acttcgacgc cgacgcggtc gtggcggctg gggcagcggc 180

ggctgctagg aatccgacga acgcgttccg gagcacgggc aagggccggc tggcccgatg 240

ggcgggctgg cacgcgcacc cggctcttcaa ggcgcgcgac aaggtcaagg gcgcgcgcaa 300

gct

303

<210> 33160
<211> 270
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-B1

<400> 33160

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cggcggctgc ctgcctggg ccacggacga ccaactccctc cacaacgcct tcagcaccta 120
ctgcgaggtc ctcgagtcca agatcactct cgatcgggag acgcagaggt cccgcagctt 180
cggcttcgtc accttcttca cggaggatgc atttgtgaac gtcacttatg gtatgaactg 240
caatggatct ggactgtcgc aacatcacccg 270

<210> 33161
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-B11

<400> 33161

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tcgtgaggtt ctccgggggtt cggtttcgtg ggtgagcgga tcgagatggc ggcgtcggat 120
gttgagtacc gctgcttcgt cggcggcctc tcttgggcca cggacgacca ctttcttcac 180
aacgccttca gcacctacgg cgaggtcctt gatttcaaga tcattcttta tcgttagacg 240
cataggtccc gcggcttcgg cttcttcacc ttctgcacgg aggtagcgat gcggaacgcc 300
atcgaaggca tgaacggcaa ggagctggac tgtctgaaca tcaccg 346

<210> 33162
<211> 61
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-B2

<400> 33162

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aagggaaaaa ggaaaaaaaa aagatagaaa 60

a 61

<210> 33163

<211> 54

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-B3

<400> 33163

aaaaaaaaat aaaataataa aaaaaaaaaa aataaaaaaaaa aaaaaaaaaa aaac 54

<210> 33164

<211> 209

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-B9

<400> 33164

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ggaggataaa aaaaaaaaaa aaaaaggTct accaatTTaa caattcacia ctttcttccg 120

ctttcattca acataatatc cttttttata gccgtaatta ttttaaattc attttcctta 180

atttatcaac ttcattcattt taaaaaccc 209

<210> 33165

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-C11

<400> 33165

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agaagttggt tatttgtatc tcattcttctg agtcattcgt cgctgcaatc ctcaacgaca 120

acctcattcc acttgcttca ttgtcctgca tcatactttg ttacagttct cttgtaataa 180

ttggcttctg cttcatatgc agctagtaat aatattttat tctcttgTca tacccttatg 240

aaactttatt cttgtaataa gtcggcttta cctcttcgga gtttcttata cataaactca 300

ttctatttct cttgagcact taa

323

<210> 33166
<211> 151
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-C5

<400> 33166

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aatgagccgg ggcattccagg gatggagatg aagaagatcg cctgcgccgt tcttgtctcc 120
gcctcggcca cctgggcgct ggccgcggag g 151

<210> 33167
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-C6

<400> 33167

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ttggatttaa agctggtggt aaggattata aattgactta ctacaccccg gagtacgaaa 120
ccaaggatac tgatatcttg gcagcattcc gagtaactcc tcagctcggg gttccgcctg 180
aagaagcagg agctgcagta gctgcggaat cttctactgg ttcattggaca actgtttgga 240
ctgatggact taccagtctt gatcgttaca aaggacgatg ctatcacatc gagcccgttc 300
ctggggaccc agatcaatat atctgttatg tagcttatcc attagactct atttaaaaag 360
gttctgttac taaca 375

<210> 33168
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-D1

<400> 33168

gtcaactggt gtgggcagaa cttggttaagc aagcaggagc ggccatgcct gacggagtga 60

cgggtggaagg cggaggcgcg cctttcgcat cgcacctct gagctctgac cctgctccgc 120
 gaagtttttt tttttccttc ttttttgaca aaagcagccg cttcatcaag catctagacg 180
 gccggttcgg tgcgggtcgc ggaagtacag cccaggtggc ctgccggcct gttgtttggt 240
 caagctgagt gggcgcgcg gtagccatgc ctactcaac tgctgacctg taacatcgaa 300
 atggtctgct ctgcgtctcg tggtcgcg 328

<210> 33169
 <211> 187
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-D2

<400> 33169

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 aaagagaaaa aatataaaaa aaaaaaaaca gaccaaccaa tctataacaa tctcatcttc 120
 ccatacgctt gcatactaca tctatccat tctatcgctc cccttaattt cacttcactg 180
 cccttta 187

<210> 33170
 <211> 206
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-D4

<400> 33170

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 gagggataag ggccttgagc ccttcgagtt cgaggactcc gtcgcccattg ctttcttcga 120
 cctggagaac ggtaaccagg agctcaagag cgacctcaag gacctttaca tcaactgtgc 180
 tatccatctt gatgttcgct ggagca 206

<210> 33171
 <211> 110
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-D6

<400> 33171

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tggggccatg gtgcctatca tgacgtcca cttcgacagc gccaacatgg 110

<210> 33172

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-D9

<400> 33172

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gcttggtgac atgatggata tgttcttccc aaattgtacg caaagggtca tcaactgtgtc 120
tcatgcgcaa tccatgcaca cattgttcgt gtccgctctc gtgagaacag gatgaaccgt 180
gagccccgc agcgtttcag ggcgcgggat gatggcccaa ggccagggtca gggcccaccg 240
cgcccagggtg ctgctgccac agcagctcct cctgctgccg ctctcgtac ctaagttag 300
gaatgcgatt catggcttag ttctctcacc tatgggataa tggacttttc ctgttttgaa 360
aaccaatgta c 371

<210> 33173

<211> 362

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-028-Q1-K1-C8

<400> 33173

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gggtcatctt cttaccttga aactgaggta cttcatttct attagataat tgctgctaaa 120
atatggttac attattaacg tctggctgtt tcgtcacgca gctaccaaca tatctatatc 180
ttctccgtga tctgcataac aaattagata atttgaatcc ttcaatcaag ccttttctta 240
gtacttctaa agcaaaatat actcctactc attgccataa gagtacacaa gattttcttg 300
acaaaatcca gccactattc ttagttttta ggaagcatct ggatggagca gtttcaatga 360
tc 362

<210> 33174
 <211> 128
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-028-Q1-K1-D1

 <400> 33174

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 aaacgggaaa agtaaattta aaaagggcga gccaaaccaa cctaaactca acaaccccc 120
 caacaaaa 128

<210> 33175
 <211> 154
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-028-Q1-K1-D10

 <400> 33175

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 cgacaacgcc acgggcgcct ttacggtcac gctcgacgc ttcgctttcg gcagcgggtc 120
 ctccgtctgc gagttcttca tccagggtc ctac 154

<210> 33176
 <211> 53
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-028-Q1-K1-D8

 <400> 33176

 ctaagatgaa ccatgtttgt gcaatagtg tgtgtttttg tttcctgctg gtt 53

<210> 33177
 <211> 277
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-028-Q1-K1-D9

<400> 33177

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cccactcgtc cgccacgcg tccgattaaa aatataaaaa aaaaaaaaaa aaaaacggaa 60
aatgtaaaat tttagaaaaa aaaaaaacca caaacaaaaa aaaaaagggc gcccctttta 120
aaaaatccgg gcttactttc ccattccttc aacatcatat cttttttata ggtcccctaa 180
atttaattca ctcccctaaa ttttacaacc tcctactttt aaaacccctt tctttcccca 240
acttaattcc ctttccccac attccccctt ttccaac 277

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<210> 33178
 <211> 308
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-E11

<400> 33178

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cgtactcttg ggtcgaaatt aaaatttata aaaaaaaaaa aaaaaaaaaa gcaaattgta 60
aatttaaaaa aaaccaaacc caaacacaaa aaaaaaaaaa aaaaaaaaaa aacgccccct 120
ccccctaaca aaaaccagcc ttcccccttc taacattcct caactttacc ctcccttcat 180
accaacccta aattcattct ttgtcccccc cttatacaaa ttcttttccc tatattcccc 240
atcttctccc cttttaaacc ctttgctacc cctacctttt ttccccctct ccctttaccc 300
catttacc 308

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<210> 33179
 <211> 361
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-E12

<400> 33179

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tgttttagcca tgtgtttttgc aatctgctca taacgaatgg ttttacattc taggatttct 120
attgcttgca ggtagggttac tgggtgcact tgtttgtaaa tacttgagat gaccacaact 180
aagtcacaca atgaaacttt aagtgttaacc tggtgaccgg tgaccattca taatatttca 240
tttttacatt ttggatatca atatccatta atatgtttcc ctattttgtt tgtatatcag 300

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CGTGAACCTTCT

gatagaatga actgaaagac ttctctaaca aaagtggagc ttgagggagc 360
a 361

<210> 33180
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-E2

<400> 33180

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cggactcgga ggagcaccac ttcgaatcga aggccgacgc cggagcgtcc aagacctacc 120
cgcagcaggc tggcaccgtc cgtaagaacg gcttcatcgt catcaagaac cgccccctgca 180
aggttgtgga ggtttctacc tcaaagactg gtaagcatgg ccatgccaaa tgccactttg 240
ttgccataga catattcaac gggaaaaagc tcgaagatat tgttccttcg tcacacaact 300
gtgatattcc gcatgtgaac cgtactgagt accagctgat tgatata 347

<210> 33181
<211> 201
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-028-Q1-K1-E3

<400> 33181

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aatcaagctg tggccgcgta aaggcatcaa ggcggtangc ttacatcaaa ctaggaaacc 120
ataagctaca ttcaaatagaa cttaatgccca ggattattct taataagaac attgctttca 180
aacaacttgg gtattttttt t 201

<210> 33182
<211> 312
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-E6

<400> 33182

acgaccacgc gtccgaaaaa aacgtaatca acacaaacaa attaaaaatc aaaaaaaaaa 60
acacaaacaa agggcattgg tcaaaattaa aaaacagagc cacacacccc accatacaaa 120
aacataacac ccaaatcaac ccacctaaac ccaacccact agccaaaaat taaacaacgt 180
tcatacttgg caaccccttt aaaaaaacca aattacatta cacccaacac aacccactt 240
cctcccctaa actcccactc aaacaaacac cccccggtcg ccctataaaa aaattcctca 300
atcaaaaacc cc 312

<210> 33183
<211> 298
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-028-Q1-K1-E9

<400> 33183
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cgaagcggac ggacgactgg ggacgagacg aaggcacgga acggagggag gggagggacc 120
gagggagcca gtgagcgagc cagactaccc acctactagg tccagcggca atgaggggca 180
gcgagatggt gaccgcctcg gggggcaccg gcacggcccc gtccacggcc tcctcgtcgt 240
cggcagcggc ggcggacctg gttgccggag ccgggggctt gggcgccatc ngcgtggg 298

<210> 33184
<211> 204
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-F10

<400> 33184
cccacgcgtc cgcccacgcg tccggtcttc atgctgctca tgtggtgctg gtccgagacc 60
ttcgtcgtca gcttctacta cctccgcggc cacctccacc agacctggtc cgtgccccgc 120
tacggcttcc agtacttctt gccggcggcg aagaaggga tcaaccagca gatcgagctg 180
gccatcctgc gggccgacag gatg 204

<210> 33185

<211> 338
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-028-Q1-K1-F11

 <400> 33185

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 aaggataata aaacgtttga ggaagggttac cgcttacgat atacctatat atagatagtg 120
 tagtggttga gtgtgttaag tagatcggtc ccatataaag ttgcaatgta tctgcaatga 180
 gttcatctac tccgggggtgt tctccgcact tctcaagaaa gaaatagttg gaaattcccc 240
 ggatcgtctg cgcttggcctt ggtattctta tactgaatcg ctggttgata aaagaaagca 300
 taaagttttt aagcctgcgt tctcgttggc gaaaccac 338

<210> 33186
 <211> 280
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-028-Q1-K1-C7

 <400> 33186

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 gcaacgagtt caacctcgac tccaaagcca ccatcggcgt cgagttccag acccgcaccc 120
 tcgtcatcga ccacaggagc gtcaaggccc agatctggga caccgccggc caagagaggt 180
 acagagctgt gacaagtgtt tattacagag gtgactggg agctttgctt gtctatgaca 240
 ttaccagacg ccagagcttc gatcatatac cccgctggct 280

<210> 33187
 <211> 85
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-028-Q1-K1-F2

 <400> 33187

 cccacgcgtc cgcccacgcg tccgcttacg cgtccgccca cgcgtccgcc gacgcgtgcg 60
 cggacgcgtg gggtctagat cgcga 85

<210> 33188
<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-028-Q1-K1-F3

<400> 33188

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gttccggccc cgaacccgtc ngctgctggc ggaatgctcg agctgctcgc gcggcgagag 120
cgggccgccc cgtgccggcc gggggacgga ccgggaacgg cccctcggg ggccttcccc 180
gggcgtcgaa caaccgactc agaactggta cggacaagga agaaaatgat cctgagaaaa 240
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ctgaccctac caagattcaa ggcttagtta agaactactc gcagtttgct tcattcccca 360
tatatacatg gcaggaaaaa tcaagaacac atgaggttga agaggaggaa agatcaaaaa 420
ggtgaagagc tactt 435

<210> 33189
<211> 307
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-F6

<400> 33189

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gcagaggctg cggctacagt caggccttaa caaaggccag cgtcctagta ctgatgattc 120
atcaagctgc attatagacg aaccacgaag tcagcacaaa gcagaaaaag cagagattga 180
agaagatgcy agtacaaacc tcgctggaag tgctgatgat ctacctggtg atatccatga 240
tgatgagcaa aagaacatcc ctgaacatgg tgctgaaatg acttctccag aagccaaatc 300
tgttctg 307

<210> 33190
<211> 156
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-F8

<400> 33190

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tgcagaaccc tcagctgcac gagttccaat tccacaactt tccgacttct tacctacgct 120

gagcttctca tcgtgctgca caacattatg gcttac 156

<210> 33191

<211> 118

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-G1

<400> 33191

cggacgcgtg ggccggacgcg tgggctgacg cgtgggcgga cgcgtgggag aaaaagttaa 60

atttaaaaaa ggaaaaaaa aaaaaaaaaa aaaaaagata aaactaaaaa aaggggagc 118

<210> 33192

<211> 318

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-028-Q1-K1-G12

<400> 33192

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tgatgggagg aagaacantg gcccggcccg tcgtacttgc gctggtgacc atcatcgcca 120

tcgcggcggc cgagggggac caggtgaagt gtggcgggtg ctctccgtgc ggcggcgcgcg 180

actgcccggt gctgtaccgc ttgccgtcct cgccaacgta ctactactac agccctaccc 240

cacccgcgac ctaccccggg gagtcctcgt tatactacca gtcgccgccc gcgggcgcgct 300

acatccagat cgggagcg 318

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-G7

<400> 33193

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cagcgggtgc cagggcgctt tctacaccta cgacgccttc atcgaggccg ccagcaagtt 180
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cggccagacg tcccacgaaa ccaccggtgg atgggcgact gctccggatg gaccgtttgc 300
ctggggatac tgccgggtga aggaacagaa acagacggac ccaccctact atggacgagg 360
accatacag ctaactcata agtacaacta caggctcgcc gggcaagcgc 410

<210> 33194

<211> 220

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-H12

<400> 33194

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tagtcgcgtc atcgcgcaac acggcgcgta gagcatcatc acccgcccca tgttccagaa 120
catgctgaac cacaatgtct acagccggtg ccagggcgcc ttctacacct acttcgactc 180
catcgaagcc tccatcaagt tcctcagctt cagcaccacc 220

<210> 33195

<211> 235

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-H3

<400> 33195

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gtgggaatcg gtcgtctgac ttgggtatag ggactaaaga ctaatcgatc catatagtag 120
ctgtcaccct aataaggttt acttaggata gctggagcct acacgagtac tatcgggtat 180
aagccaatga ttagaggat ttggggcgca tcgcctcga cctattctca aactg 235

<210> 33196
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-H5

<400> 33196

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ccatgaacat gtgctctaag tgccacaaga gatgataacg aagcaggatc aggccaagct 180
ggctgcctcc tctatcgaca gcatcgtgaa cggcagcgac gccgtcatgg agccggttgt 240
tgctggcagc aacacggtag tagctgttgc ccaagtcgag ttgcaaacaa tgaacgtgca 300
gcagcccgt gatgttgccg gaccagcga gggggtggcg gcgatctcca aaggggggaa 360
ggtagggccg aaccggtgca ggcctgcaa gaagagggtt gggctcacgg gattcaact 419

<210> 33197
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-H6

<400> 33197

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tacacttcac aatatggcaa gagctcttgc ctacggtgga gcagctgccg cagctggctt 120
cgtctcgccg tggcttgccg tgctcgggtgc ggccatgctc tccgtctggg ccatcacgct 180
cgccatcctc ctctgtggcg acagctcaga caaccgaga ccaagatata atcctgccgt 240
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agggggctgt ggtggcggag gcggtggtgg agggggctgt ggcggcggcg gcggcggcgg 360
atgctagagt tcatcgcatg catccgatgc accagcggca tcagttgtgc tggctctgcag 420
aagctaagat g 431

<210> 33198
<211> 187
<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3068-027-Q1-K1-H9
 <400> 33198
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 cttcggtgag ttgaaaataa gcatagatcc ggagattccc aaataggtca accttttgaa 120
 ctgcctgctg aatccatgag caggcaagag acaacctggc gaactgaaac atcttagtag 180
 ccagagg 187

<210> 33199
 <211> 330
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3068-028-Q1-K1-A1

<400> 33199
 ccacgcgttc gctgacgcgt gggaaatgat tcattngacc cagtcggcaa agagggccgc 60
 ggtagatagg tgaccaata aggcaataat gaacccatgg tcggagtagt ggtgtcatta 120
 catgaacata agttactatt taattagcat ggagaataga aggtggcgat catttcctta 180
 gtcctgtta gtgtccctga acataagtta cccatggtct gagatgttac atctttctga 240
 gctatcttct ctcggtttgt acttctgtta gtgtccctgg caccatatca ttcatttgga 300
 gatattcaat cagctgtgtg gctatgtaaa 330

<210> 33200
 <211> 171
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-028-Q1-K1-A10

<400> 33200
 accaccggc cgcggcgctg cagatcgggc acttcaccgt ggagcctgag gaggccgccg 60
 acctctcta catgaccaag tacgcctaca acagctacat gaacatgatg gacctcgcg 120
 ccggctactt cgaccgagtc ttctacgact acgaccactt caactgatcc a 171

<210> 33201
 <211> 441
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-028-Q1-K1-A11

 <400> 33201

 gaagctgcac cacgaacctt gattatgggt ttttcgctgg cggtactgc gcgggataac 60
 ggtgaaggac tactggatcg tccgcaactc gcggggcccg aagtggggcg aggctgggta 120
 catccgtatg gagaggaacg tcaacgccag cactgggaag tgcgggatcg cgatgatggc 180
 gtcctaccgg acgaagaagg gcgcgaacct tcccaggccg tctccaacct cgccaacacc 240
 gccggctgcc cctgacaatg tctgcgacga gaatttctcg tgctccgctg gcagcacctg 300
 ctgctgcgcg tttggcttca ggaacgtctg cttgggtctg ggcttggtgc cttttcaggg 360
 cgccaccttg ctgtaagatt accccaactt gttgtccccg ggctattctt ttttttaaat 420
 tcataaattt taattttttt t 441

<210> 33202
 <211> 335
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-028-Q1-K1-A2

 <400> 33202

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 cgccatcttc aacaccggca ccgggatggg cttggacgcc aggccatctg cgggggctaa 120
 tgctactgct agccaagtca tcgtgtcgcc cgccactggg agtcccaccc agcagtggac 180
 gctcatgctg tgatctcatc tacggctcat gagtcatgac tgtgggggca gggcagtact 240
 gcaactgcaac agctagctgg tgtgttttgt gtatatatct ggcgagctag gttgttaaag 300
 caagcattag ctattttacc agtacaataa tgcatt 335

<210> 33203
 <211> 216
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-A3

<400> 33203

cacgcgtctc ggaaaaatta ttttattaaa aaaaatttaa aaaaaaaaaa aaaaaaaggg 60
cgggcgcgtc ttttagaaac aggggtgggg gccctccat tcaacggggg agccttttta 120
taggggccac ttaaatgaac tcatttgtcc gacgtttaaa acgtatatta ctgggaaaaa 180
ccttgattta actgacttaa tttttttaac gtccaa 216

<210> 33204

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-A7

<400> 33204

tgcacttgtc tgggacatcg atcgcgttgt cgtggagacg cagctcatcg cgcacgagaa 60
ggccgtgcac gacatcgctt ggggggaggc cgggggtctt gcctccgtat cggccgacgg 120
ctccgtccgc gtcttcgacc ttcgggacaa ggagcactcc accatcgtct acgagagccc 180
ccgccccgac acgcccgtac taaggctggc gtggaaccgc tctgacctcc gctatatggc 240
cgcgctgctc atggacagca ggcgcgtcgt cgtgctcgac atacgtgcgc ccgggggtgcc 300
ggaggccgag ctgcaccggc accgggcgtg cgccaacgca gtcgcgtggg cgccgc 356

<210> 33205

<211> 299

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-028-Q1-K1-A8

<400> 33205

gggcacccta tggtagatga ttcgcgttgt caagaacacn cacttcatcg ggcaccgtta 60
cattacacgc ggcataccct cncctcaanc cncattaata gtctccatat caaccaacca 120
attcgacccc atgttacaca cttctgcaca aaaaacaata caacatctcc tactagagct 180
cccttccta cagcaaata ctaaggctac attaaaacc ttctgacctt cactatattg 240
cctcaactat gatcgacacc atcgctgcg tcattcacia catacattct ccctgggtg 299

<210> 33206
 <211> 372
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-028-Q1-K1-B9

<400> 33206

cgcacgcgtc cgccacgcg tccggctcca ggtggtacag gttcaagggg gctcaggact 60
 gatgcgccga ggtgaccgtc gtctcagat cactacagat gcgggcatga atgggactca 120
 gctctatgcg gtctgatga cagtttgctt ggtggcttgg gtaattatgt tatggccttg 180
 gcagagcaac agggaaaaaa agggccttaa aataagggtca tgataattat tttgtatcta 240
 ccatagtagt tgtttgatat cgacgcctct ctctctctct ctctctggta ttactttata 300
 tgtttgttac tgtcctttca tttgaatcta taggatggtc aaagtggctg atgaaagagg 360
 agaaagaaac aa 372

<210> 33207
 <211> 358
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-028-Q1-K1-C1

<400> 33207

tctagatcgc gatctagaac tacacggctc catggcgtgc cagtgggatg cagtcagcga 60
 acggcgcgcg ggcgtgaggc antcntgtgc tgtgcgcgag aatgggaggg gttgcaggaa 120
 gccgggacgg gagccatacg ctggggcgct tgagccggat tgctccagct tggacgcctc 180
 ctctggatag ctgatggact cgcttccta actcaagagt tgccatgtgt cttcaagccg 240
 ccctgatgag agaaccaca aggagatcca ggccaagaat gacaacgctn ggacggacat 300
 ggggctaacc ttctagagca ttgagaccat atgcagagag gtccagatca agaacgac 358

<210> 33208
 <211> 179
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-C10

<400> 33208

ccacgcgtcc ttccactcgt ccgcccacgc ttccgtttta aaaaaaaaaa aaaaaaaaaa 60
aagaaaatgt ttaattttatt aaataacaaa acacaaatac acaaactcct aaaaccacaca 120
ccactctaatt atttccatcc tcccgcaccc cacataacaa ccccatTTTT tttcctttt 179

<210> 33209

<211> 329

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-028-Q1-K1-C3

<400> 33209

cggttcggat acccggcgcg cccacgcgtc cggttcgtcg tgcggcaact gcgcgaccgc 60
cgacgcccga cggcaggtgc accaggtgtt cgtcgacccc ttcgcgaggc ctngttcca 120
tccttcgccg gaggcgaccg cccgtcaaca ggacttgatc tactactcac tagcgggtgta 180
gaggcgaaga gaagaacttg accatgagca gcataggcac aggttacgat ttgtctgtca 240
cgactttctc cccagatggg cgtgtcttcc aggtcgagta tgccaccaag gccgtcgaca 300
acagcgggac tgttggtggg atcaagtgc 329

<210> 33210

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-G5

<400> 33210

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aaagggaaaa taaaaaaaaa aaaaaaaaaa aaaaataaaa aaaaaaaaaa taaaaaaaaa 120
ataaataaaa aaaaataaaa tattaataaa aataaaataa atttatttta ataagttcaa 180
tttttacaac aatctttaat gaaaaaactt tatcattaac ctaatttaaat ataatttaaa 240
ttaaattccc ctttttcaaa attgattaat atggaaaaat cctgttataa cctactttta 300

taaaatttgc gtaaacttaa ttttaaaata ttatactctt tttaaaaat

349

<210> 33211
<211> 119
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-028-Q1-K1-C4

<400> 33211

acgctcactc tttattgcac tcgtgcgctt tatatataa gacaaggggc tagttatttg 60

tcattgagtag ttgctaggtg ttgtagacct atacatctat agactgggtga gtaagggac 119

<210> 33212
<211> 171
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-C5

<400> 33212

ttttatattg gaggggccag ctcaccagac agtttgaatc cctggcactc ttctacttga 60

gctgcttgat tggagagatg tacattgccac cacaggaaaa actggcattt ctgtaagccc 120

agttaatttt tgctcggcca aaaaaaatta atgcgatgtt tggtttctat g 171

<210> 33213
<211> 360
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-028-Q1-K1-C6

<400> 33213

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gctaataatta atatggtcga gccaatcac gattcctcat atcttattca ctttggcttg 120

accaatcctc ttaatcactt caatctctat tatgatcata tttatgcata gtgatttctc 180

aggacttgtc catatattca aaccaatata gagaccatat tatatccatt tgcattgtct 240

cactgggttat ttgaccttgt gttgagcctt gttcactgat cattatacac tattcaagta 300

tggtcatcat actgaatttc ctgttcaaca cttagcaaac ttgttagacc tttaaattgtg 360

<210> 33214

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-E3

<400> 33214

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cagtatctag ccagccagcg aggagccgcc gttgcttctt agctgcacct ccgcgcgcgg 120

tctgcaggcc agtcggtctc gatccacggc cggccgaaga agaagacgcc gacgatgaag 180

gtgtcgggtgc tggcgctgtg gtcggcgggc gcggcgctgc tgctggtgct ggtggcgcat 240

gcgccgtcgg cggcggaggg ctcccaccac ggcggcgcg gcctcaagct ggggtactac 300

aagaagacct gcccgggctg cgagaacgtg gtcaagtacc acgtcgccaa ggccatcaag 360

gccaaccgcg gcgccggcgc cgcgctcgtc cgcctcatct tccacgactg cttcgtcagg 420

gggtgcgacg cg 432

<210> 33215

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-E5

<400> 33215

gtcttacgcc tccaaaaccc tagcccgtgc tcggccggcg acgaggatgc ctggtatgcc 60

gacggacggt ggcggcgcaa tggtagcttt tacaggggag cctggccaag ggcgcgcgcc 120

gccggcacc gtgcggccaa tccgccacgg cgtggcgccg cccatcttcc gcatctacgt 180

ctcctggtcc agcggcaacc ttctgcaggt cgcgtgcctc cgcgcgccga attcggacgg 240

tggcggcggc acggaggagg tcgttgggag tgtggtggag gtgaatctcg gcgacggtgg 300

cagcgttggc tcggaggccg aggagaaaat tgacgaggcg gagatgcgga agatcgagta 360

cgggtcagtg ccggccttcg cgctgctgca gacgaggaag aacaccctcg cagatgttgc 420

tactatgtcg cac 433

<210> 33216
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-E6

<400> 33216

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ggttcccaag cgccaaggc agcggagagc tagctccctc ctctctctca ggtagcgagc 120
gagcgagcga gtcctctgct ccctctgcac ctggcctccc ttctccgctg cagcaccgtc 180
gttttctccg ttgacgactg ctgaccagt gcgcgcgctc gcgctgccta taccttacct 240
agccagagcg cggcgcgcga gaggggagaac gaccaagagg ggaggagatc gatcgatcga 300
tcgatcgaga tggccttctt caacatggag cagcagacct gggccttcac cttcggtatc 360
ctaggtaaca taatctcgct gatggtgttc ctt 393

<210> 33217
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-E7

<400> 33217

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ggcttgacag cggacatggg agacctcgcc gcctcgctca cgccttacct gcacagcgcg 120
ccgctctacc tgctctacga cgccaccagt atcgccaacg ccagccgcgg cctagcgccg 180
ccgccgtcgc tcctgggcga ctacggctgc ggcttcgagt tcgccactac tccgacgctt 240
attaacggct gcggcacggc gctgcgcgcg tgcgccagcg acgtgtctgc ggcggtcttc 300
gcgggcgagc tgttcccgtt gagcctgccg ccgctgctgc atcggtgcc cgttcgctcg 360
gctggagcc 369

<210> 33218
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-E9

<400> 33218

actatattaa tttttctaac agatatggcc accttcaagc attaaagata caggttcgcg 60
ccttcacact gaactgaaag aagcgatagt ccaggtaga tccttaaaat ctgtttatga 120
tttctcagta aaccattgat tttgtccatg tatatgttat ttgtcacaat atttacgtca 180
ctttatgtcc aagtgataat atctgcaagt taatagtccc tccattccaa attgtaagtc 240
attttgacat ttgtagcacc cagatatatg tatttttggg taacatagta aaaaactatg 300
tatctagatt gaaaagctag aacaacttgc aatatagaac agatggagga ctaactcggt 360
caattgtgta cattatgtaa gtactgcaat gtaattaatc tcttctatgc tattacggat 420
acatgtcata catt 434

<210> 33219

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-027-Q1-K1-F11

<400> 33219

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cggcatattc aaaattatta gctacagttg ttctgcatg cgccagattc tcatgtgaga 120
tgataaaaac gtcataatta tttgctaagt ttaatgacct acgtcagttt ctgcgtacta 180
aaaactattc gctagttgag tcgttcggc atattcaaaa ttattagcta cagttgttcc 240
tgcatgcgtc taatgtcctt cgggtgaactt gtctgtcatt atcatttaaa aacgtatcta 300
gatgcattat ggaagatttt tagtttcctt tgttatattt gagaagttat atattgtata 360
taccgagaga tgcacctgtg tattatttgt tgtagcttcg aatgcgagac gtatggttgc 420
agtcattnta ttgtagtta 439

<210> 33220

<211> 166

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-F12

<400> 33220

cccactcgtc cgaaaaaaaa aaaaatattt aaaaaaaaaa aaaaaaata aaaacaggag 60
ggacaaatcc ataaaaatat aaatacacac taatatacaa aaaaactaat ctaccatact 120
ctatattgcc tattcttaac ttgtcttgge tcaccacagt cttctt 166

<210> 33221

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-F2

<400> 33221

ccacgcgttc gcccacgcgt tcgccgactc cttcgaatcg gagcccgtgt ccgtcgccgg 60
cggcttcgcc attcgctcc ggtgcccacg agctacgctt cctcctcttc gtacgctccg 120
tctcatgacg tgaaagagta taaactgtca tgactgacag gcttctcacg aatctaactt 180
tcatgtgctg aaccgtcgat cgcacggcca tgctgcaagc ctacccccat gccatcatca 240
atgcatacaa aactggaact gcccaagaag ctataacatg gtattagact gactaacaat 300
gccatgac 308

<210> 33222

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-F4

<400> 33222

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acccgccgcc gcatcagcca tcagccatgg cgctggccgc tcgcctcgtc tcacgtccc 120
gtcagctaca ttcggttcaa gcagcttttg cgaatggagg tgctactcaa gttcgtcctt 180
ttgccaagga tgcagctcca gctgaccgtc ctctgttag tggggatgat ctctgaagg 240
gcatattctt tgaggtaaag aagaagtttg agacagctct tggcgtcctt aaaaaggaaa 300
agatcactat tgatccagac gaccagcgg cagtttctca atatgccaa gtcatgaaga 360
ctgtaaggga aaaagcggat cttctttctg attctcaaag gattaaatat accattgaga 420

cctttaccag gggca

435

<210> 33223

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-F7

<400> 33223

acgagttcta tcgggtaaag ccaatgatta tagggaagaa gaagatacta ctaggaacca 60

tgcttgctc gtttactctt ttttttttcg tgtccccatt cttcttcgta gctttcactt 120

ttattttttt ttttttgttt ttctgggtgga cggattattc cggtggggga cgacgaggtc 180

gggatttaaa tttgtttcct cgcttgcttg atcgtggaga tccatctata atctatcatc 240

gtcaatcata agccatgttt tgtctgcaag aaaaaaaaaat aaaataaata caaatattaa 300

aaataacatt taatgctatt tatttta 327

<210> 33224

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-F8

<400> 33224

cccactcgtc cgaccactcg tccgtccact cgtccgccca cgcgtcccga agagggggag 60

gctgtatcaa gggcatccca agaagcagct cagaaggaag ctgctcttgc aaggaggagg 120

caagagaagg ccatggctct tggagctgaa cctgagaaag gaccacgtgt tactcggggt 180

ctcataagat tcccaactgg agagcgaca gagcggagat tctacagttc tgcaaccgtc 240

gctttcctct atgactatgt cgattctcta gactgcatga aagcgcagaa gtacacccta 300

gtttcgaatt ttccacgcgt tacatatggt ccagaaaagc aatccctgac gcttgaagaa 360

gcaagcttgc a 371

<210> 33225

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-F9

<400> 33225

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gggtcccggc gtgcttatcc gcccccgccg gccatgtcga agcaaggagg gaaggccaag 120
ccgctgaagg cgcccaaggc cgacaagaag gagtacgacg agacggatct tgcataatctg 180
cagaagaaga aagatgagga aaaagcactg aaggagctta aggccaaggc acagaagggc 240
gcgattgggg gctcgggtct gaagaaaagt ggaaagaaat gagactggtc acccgtctcc 300
aataacctaga ggatgataag gcagctgtct atctgtgttg cgcttcacta agtgtgattg 360
taacagtggg acctcttgtg ttctgtgttc cgcgatgttg cagttgggtg cttgatcgaa 420
aaaaaaaaa aaaaaaggcg gccg 444

<210> 33226

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-G1

<400> 33226

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cggaggaaga agcccgaacc aattaagcaa ttgaatccaa aatttgaaga gaactacatc 120
aagggtcttg attatgatcc tgatcgagaa agggcacaaa tgaagaagct gcggaagcgt 180
gtcaagagtg agatgaaggg ggcgaagcgt gagctgcaaa aggataatta tttcctgtct 240
gctgtgaagg agaaagagag gaggaagcga gatgaagaga gagctgagat gtatggaaaa 300
gccatggcgt tccttcaaga acaggaaagt gctttcaaat ctggacagct ggggaaagga 360
aagggtagga aaaggatgcg gtgatactct attgcagggg ggcagctcgg ccagtgtaaa 420
tatacgggat t 431

<210> 33227

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-G10

<400> 33227

cccactcgtc cgggacctcc caagacctgg catctccagt gaatgcgacg ccgggggaccg 60
ccggccgtgc gtcctctctc ctctgtcgct tcgcccgtct ccacagttgg tgcagaaaca 120
gtgcaacagt gtttacgggg tgaactgctg gagttggcgt tagatagtcg atggtctact 180
gccgccgtgc tctctcacta ccagtgtccc accaccgtca tgcattgttt gcggcaattg 240
ccggctacta tactccttcg tctccaatca tcaggcacca gcttgcgacg caacttggat 300
tctctcctct cctctcctct cgttgcaaca aggcagtcca atgaatg 347

<210> 33228

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-G2

<400> 33228

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gggttagtct cttattagct ctaggctcta gctagccgag ccactccttc gtgtagccat 120
cagccttctc atcgccacca atggccactg ccgaggtcca gaccccgacc gtcgtggcgg 180
ccgaggaagc gcccggtgtg gagacccgcg cgcggccgt cgtgcccagag gagtctgccc 240
ccgccgaggc cgaggccgag gccgaggctg ctgctcctgc tgatcccagag gagcttcccg 300
cggccgagca gcatgcagcc gccgaggcgg aggccgcggc tcctgctggt gccgaggagc 360
ccgtcgcggc cgaaccggcc gacgaggctg aggctgctgc tcctgctggt cccgaggaga 420
ctcctgcggt cga 433

<210> 33229

<211> 186

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-G3

<400> 33229

tcgttcacac atccatctca atcagcacia gaaggttact cttcaagata cacacttgca 60
tcacccgtgg tatgtcatta cctttagggt ctacctattc ccacttatca taagcataac 120

cctcagactt atcatctaca cccacacca cacacgatct acaaacacat accgtcaata 180
ctgacc 186

<210> 33230
<211> 359
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-027-Q1-K1-G4

<400> 33230

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cagggctctct gttctgttca tcctcacact gattgagttc ttgtggtctc tcaaccagca 120
tctgataccc aattcctcgc acaaacctgc cacacgcaat gtccaagacc gagagcagga 180
agctgtcggg cgactatgag gttgcggagg tcctcggccg aggcggattc tcgatcgtga 240
ggcggngagt gagcaagtca gaggggaagg cggcccaaca ggtcgccata aagaccctgc 300
gaaagctggg cccggccacc acgaccggcg ggagcacgcc gtcgcagcaa ggctcaaat 359

<210> 33231
<211> 403
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-027-Q1-K1-E2

<400> 33231

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cactatcggg agtgggcatt ctgtatatca gaaatgcac aagtacatgt cagcatgcat 120
ctgccattgg gagctaccaa aaatcatttc ttgcccattg tctcagagac aaaagagtac 180
tgatcctggg cttagctcaa gcaagcatcc attttgcgtg ctcagccttt tggtttctct 240
gggcaccaac catagtgggt gacggaagg atgctcaact gtcagtaatc taccctgtt 300
tcttggcatc aaggatgctt ggaagtgcgt gttttccatg gttttacgga gccatagccc 360
ccttnccgaa cgaggacagc ttgacaatag cttacgttgg tgc 403

<210> 33232
 <211> 422
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-027-Q1-K1-B8

<400> 33232

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 gggtcctcgc cgcattgctg ctctctctgc ccaccgcctc ggctcgccacc gacgtcgcact 120
 actgcagtaa gaaggactac ccggtgaagg tgagcggggg gcagatcgtg cccgatccgg 180
 tcgaacccgg caagccccgc actttcaaga tctccgcttc tactgataaa accatcgaga 240
 aggggaagct ggttatcgac gtcaagtatt tcttcttcta cgtgcactcg gagacccgcg 300
 acatctgcgg agagacttcc tgcccagcga ccggcgactt cgtgctgtcc caccagcaga 360
 cgctgccagg cttcactccg nccggctcct acacgatcta catgaaagat gtccggggacg 420
 ac 422

<210> 33233
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-B9

<400> 33233

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 gtatggttgt gaatttgtca atttatactt aggcccgttt gttttgttgg aattgaattc 120
 cattataata atcataattt agacaaacta attaagttaa tatatttata tatttaatat 180
 attagtatat tatcctgaat catatgagag atatagttat acgctacacg tatgctatag 240
 agaagtaagt ataagagtgt gctataagtt gtatattaga aaagtagcat gtaaatttat 300
 agaaccaatt tttatctctc accctatgaa ttgagatag acttatatat aaactttgaa 360
 aagttatgga atgtcacatt ctaaaaaata gcctactcca ttagttagat tccaattctt 420
 cgaaatgaag aaacaaa 437

<210> 33234

<211> 403
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-027-Q1-K1-C1

 <400> 33234

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 aagccacggc caccggcgcg atgaaaccgt cgctgtcgaa gaagaagggc aagaagaaga 120
 agaagtcctc gctgccggcc gccgcaccgg cccctccgcc ggcgaggggc gctgcggata 180
 cggaggcatg tcccccgctg cccggaacca taaccctagc cgctgccacc gctgctgcgg 240
 cggtggtttc ggagacggag tccagcagca gcggcgaggc ctcgacgtgt ccatccgcct 300
 gcttcaccgc aagctcgtct gggaccgcgt cctcgactc cttctctgcc ttgtcctcgt 360
 cggcgccac agcttcgtcg tcggccgcgg gcgaggagcg gcg 403

<210> 33235
 <211> 271
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-027-Q1-K1-C10

 <400> 33235

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 aggtgtaaag ctccatacta gaataccgcg ttacattcta cgtgcttgct acttttatag 120
 cgcttcata cttcaatcta attgcacttt agtgtcacct attttaaatg gaataacctt 180
 ggaattacac aacttaaccg cggttaaacc catttgcaac acatccaaat tgcgtcatat 240
 cgcataggcc tttagagatc tggcttaata a 271

<210> 33236
 <211> 441
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-027-Q1-K1-C12

 <400> 33236

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agattctttc atttctccat cctgagttct ttacctctct tctatctata gttctattca 120
taggcattca tgaaaatttt accgagagaa aagataggaa gggaggttta attctggccc 180
tatgggtgtg gaagctttgg tgatgttagt tcgatatctt acaagttgta aataacatgc 240
aataatagca cgtaatttgg gaatattt 268

<210> 33239
<211> 160
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-C9

<400> 33239

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tccatcataa acgagcaatg tctattgata ccgaaatata tcatgttaat cacaattacc 120
catattgtac ctcatctaga atactaatat ctacactctt 160

<210> 33240
<211> 439
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-027-Q1-K1-D1

<400> 33240

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agttgtaagc ttcacctcca gccatgggta aagagaagtc ccacatcaac attgtgggta 120
ttggccatgt cgactctggc aagtcaacca cactggcca cctgatctac aagcttgag 180
gcattgacaa gcgtgtgatt gagagggttcg agaaggaagc cgctgaaatg aacaaacggt 240
ccttcaagta cgctgggtg cttgacaagc tcaaggctga gcgtgagaga ggtatcacca 300
ttgatattgc tctgtggaag tttgagacca ccaagtacta ctgcactgtc attgatgcc 360
ctggacatcg cgacttcac aagaacatga tcatgggtac ctncagggt gactgtgctg 420
tcctgatcat tgactccac 439

<210> 33241
<211> 54

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-027-Q1-K1-D10

 <400> 33241

 cagactcctg ggaaaaaaac aaactttctt tcaaactctaa aatcacaaaac aaac 54

<210> 33242
 <211> 284
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-027-Q1-K1-D11

 <400> 33242

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 tgaaaaaaaa aaaaaaaaaa taatacaaca accattctaa aaataccctt ctttcgtact 120
 caaatctaca acatcttaaa ttttcttatt gaacctccta tctttaatat cccgacctac 180
 gttctacaac atcttaacta caacttcctt ttccttcccc cacatattct tctttcagtt 240
 catccttttt acgaacactg tattaataac ctataattcc ccaa 284

<210> 33243
 <211> 316
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-027-Q1-K1-D2

 <400> 33243

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 aggggtaagc tttaccttca gccgtgggta atgagaagtc ccacatgaac attgtgggta 120
 ttggccatgt cgactctggc aagtcaacca cactggcca cctgatctac aagcttggag 180
 gcattgacaa gcgtgtgatt gagagggttcg agaaggaagc cgctgaaatg aacaaacggt 240
 cttcaagtt ctcttggtg cttgacaagc tcaaggctaa gcgtgagaga ggtatcacca 300
 ttgatattgc tctgtg 316

<210> 33244
 <211> 427

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-027-Q1-K1-D7

 <400> 33244

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 cagtctgagt ctgtcaagga tgccatctcc cagattgttg gggatgccaa ggagaagaat 120
 aggaagttca ctgagactgt ggaacttcag attgggtctga agaattatga tccacagaag 180
 gacaagcggt tcagtggctc tgtaagttg ccccatatcc ctcgccccaa gatgaagggtg 240
 tgcattgcttg gtgatgccca gcatgttgag gaagccgaga agatgggact tgactacatg 300
 gatgttgagg ctctcaagaa aatgaacaag aacaagaagc ttgttaagag gcttgccaag 360
 aagtaccatg ctttcttggc atcagaggcc atcatcaagc agattccccg tctccttggt 420
 cctggtc 427

<210> 33245
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-027-Q1-K1-D8

 <400> 33245

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 gagcctgtcg tggagcggcc agaggcgggt gaggaggagg acgcctcagc cgccgccgcc 120
 gcgggggagg aggaggacac gggcgcccag gtggctccca tcgtgcggct tgaggaggta 180
 gccgtcacca ccggcgagga ggacgaggac gtcctgctcg acatgaaggc gaagctgtac 240
 cgattcgaca aagacggtaa ccaatggaag gaacggggca cgggcgctgt caagcttttc 300
 aagcacaagc agaccggcaa ggtccgccta gtcatgcgcc aagctaaaac gcttaagatc 360
 tgcgcgaacc acctcgtggc cttcaacacg aagattcagg agcatgcggg cagcgacaag 420
 tcgtgtgttt ggca 434

<210> 33246
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-D9

<400> 33246

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gaacctctcg tctgctgcct gcctgcctgc ctgcctgcaa aaaggagttt gtcattggcg 120
ctaagcgcat cctcaaggag ctgaaggacc tgcagaaaga cccccccaca tcatgcagt 180
caggtcctgc tggtagggac atgtttcatt ggcaagcaac aattatggga ccacctgaca 240
gtccctatgc tggtaggtgt ttcttagtga acattcattt cccgccagat tacccttca 300
aacctccaaa ggtttctttc aagacaaagg tcttccatcc taatatcaac agcaatggaa 360
gtatatgcct tgacattctc aaagagcagt ggagccctgc ttgacaatt tctaagggtcc 420
tgctctccat ctgct 435

<210> 33247

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-E1

<400> 33247

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ggttctcttg gctcaatgtc gcgtctgtcg catctattca tgtataatcc agaaatggag 120
gatggcaatg acgaggactc aggagaggag gcggccattg aagaaccagt tggttctctt 180
ggcgcaatgg cgctctatt catgtatgat caagaaatgg aggacaacga ggaggatcag 240
gcacactaga tgcagattgc accagctgca gcgaagcctt tgttttgtgt tgctggggcg 300
gctctattta tgtaatgtgg aatggagggg ttgcgcaagc ttaaaagtat ggctggatcg 360
gccttgtttt ttaactgggt ctctagttac tgccatctaa tagccaacat ttttcccgct 420
tttg 424

<210> 33248

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-B11

33248 33249 33250

<400> 33248
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gtcttttaat taaatccctg atgcacagtc atgtattgat ctggtttggt gttcctagat 120
gcgtgtaata aatggggaaa aaccatgtcg taataaaatc aatttatttt taatgaaaat 180
aatacatagc cggattactt ctctaattctt acgatttctg gtctatttct tattaacga 240
ataaggctcg aatcaaggtc agagccggag atgtgcatgg gtgcatctca tatggcacat 300
cgcagacaaa agattgcata gttggctccg atcctatttg gcaagtgaat cagagatggc 360
aatggcccaa tgggctcgga tcctatttgg ctagtgatta gagatggcaa tgcccaatgg 420
gtacccgcga tccgatactt t 441

<210> 33249
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-E11

<400> 33249
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cccctctctg cactatccac ggtagccacg gccacccgag gctgatccca gggctcccgg 120
atgaggctctc tctgcagatc ctgcgagga tgccgcggat ggggtacctc aaggccaaga 180
tggtctcgcg gagctggaag gcggcggtga ccggcgcgga gctgtaccgg ctgaggaagg 240
agctcggcgt ggccgaagag tggctgtaca tactgacgaa ggccggcgga ggtgggcaga 300
agctggtctg gcacgctctc gatccggta gcaaccaatg gcagaggctg ccgctcatgc 360
ctgggatcga gtgcaggagt ggcggcgtgt acgggctggg cttgcgggac ctggtgagcg 420
ccggcgtagg tatcttcgac gt 442

<210> 33250
<211> 409
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-026-Q1-K1-H11

<400> 33250

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ggtgtctcct ctcttccat tgccacagtc ggccttctcc gtggaagccg gcgggcccgc 120
gcctcctttg tccctgtcgt cgtgctcttc cgtaccgcca ttccttagca ctgtccacgg 180
gcgagatctc gcgtgtacgg tgtacctcgt ttcctcggc ggggtggatca gtgacggctt 240
ggtcgagatg gacgatgtgg ttgatgacat catctgtgga acggatgcgg cggttgccgt 300
cgaggatggg gccagtggga cggccgcaat gcctagctta tggtgccagg gtgaggaaga 360
gcataggaag ggcaatgagg acaactcang tgagagcgag gtgattaac 409

<210> 33251

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-H12

<400> 33251

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cgacccgcca ttcgctatca ctatcgacat gcgacacacg gactttaccg tgcacgatct 120
cttacaccgg atggccgac cagtgactact aggacgagac cgacgacacg gttcataaca 180
tcatctgtta caacgataac ctcatcaca gggtcgacat gagccagtgg ga 232

<210> 33252

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-H2

<400> 33252

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gagaattgtg gagaagtgc ctcttaaact agtcgatgag tacaagcaca tgctgtgcc 120
ggccactgaa ccactatcta cgtttttgca gtatataact tatggccaca tgattgacaa 180
tgtgtgcctt attgtaactg ggacactgca tgagagagat gttaacgaac ttttgagaa 240
atgccacca ttgggcatgt ttgacagcat tgcacactt gctgttgctc aaaacatgcg 300

tgagctttat agattggttc tagtcgatac accactggcc cttacttct cagagtgcac 360
 tacatctgaa gatctggatg acatgaatat tgagattatg 400

<210> 33253
 <211> 223
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-H3

<400> 33253

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 gacgacattc atatgctcat gcagtactga tattataata taaccatata catatccaaa 120
 agtcatacca tcaagctaca tgaacggcga ataataaac aaaacacttg ggaataaggt 180
 aattgagcta tatcatatgt agagctatag ctggcttgat gaa 223

<210> 33254
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-H4

<400> 33254

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 gaagagcagc ccacacctgg tgctgacatc gtgcctccag gccgctctgg tcatgggcgt 120
 cttcgccgct ttggctaaag aaaatgccct ggttgagagc aaggccatcg acatcaaccc 180
 ggggcagctc aagtgtgca ccaactgcaa cttctccttc tcggggctct acacctgcga 240
 cgacgtcaaa aaggactgag acccgtctg caagaagtgc gtcgtcgccg tgcacgcctt 300
 ctactcgggc aacaacaagt tcaggtgcac cgacatcttc ctcggcatgt gcggcccaaa 360
 gtgctagatc agagagggag aacgcgcgct 390

<210> 33255
 <211> 395
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-H6

<400> 33255
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 tcgtgtagtc atcagccttc tgatcgtcac ccatggccac tgccgaggtc cagacccccga 180
 ccgtcgtggc gaccgaggaa ggcgcgggtg tggagacccc ggctccgccc gccgtcgtgc 240
 ccgaggaggg tgcctccgcc gccgaggcca aggtggagga gccagctgcc ccggcggaga 300
 ccgagccagc tgccgccgct gagccccagg cggccccgtt ggccggcggt gaagagacgc 360
 caaaggagga agagacggca aaagatgcgg agccg 395

<210> 33256
 <211> 383
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3068-026-Q1-K1-H8

<400> 33256
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 gacgctggcg ctggccgtgc tcttgccggc gaccgtggtg gctcccccg ccgcgggtgcg 180
 cgccgcatg tcgtgttcca ccgtgtacag cagctgatg ccgtgctgc cgttcgtcca 240
 gatggcgggg gccatgccgc cccagccgtg ctgcggcggc atccgcagcc tgctgcagca 300
 ggccaacaac accctcgacc gccgcacat ctgcggctgc ctcaagaacg tcgncaacgg 360
 cgccaacggg agcggcacct aca 383

<210> 33257
 <211> 409
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-026-Q1-K1-H9

<400> 33257
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 gaagagcatg cccacacctg gtgctgatcc tgtgcctcca ggccgatctg gtcattggcg 120

tcttcgccgc tttggctaaa gaaaatgccc tgattgagag caaggccatc gacatcaacc 180
 cggggcagct caagtgtctgc accaactgca acttctgctt ctcagggctc tacacctgcg 240
 acgacgtcaa ataggactgc gaccccgctct gcaagaagtg cgtcgtcgcc gtgcacgcct 300
 cctactcggg caacaacaag ttcaggtgca ccgacatctt gctcggcatg tgcggaccca 360
 agtgctagat cagagaagaa gaacgcgcgc tgctgctagc tgctatagc 409

<210> 33258
 <211> 447
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-A10

<400> 33258
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 gtcgcttcgc accacgcgct gcggcctgcg gtgcgagaga tcgaggcctg agctagggtc 120
 tgggtggcgga gatgtcgacg ccggcgagga agcgctgat gcgggacttc aagcgccttc 180
 agcaggaccc gcccgccggc atcagcggcg cgccgtacga caacaatatt atgtctctgga 240
 acgccgtcat attcgggccg gatgacacgc cgtgggatgg aggcacgttc aagctgactc 300
 tgcaatttat agaagattac cccaacaaac ctccaactgt tcggttttgt tcgaggatgt 360
 ttcattccaaa catctatgcg gatggaagca tctgtttgga catcctacaa aaccagtgga 420
 gccctatata tgatgttgcg gcaatat 447

<210> 33259
 <211> 85
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-A11

<400> 33259
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 aaaaaaaga aatatataaa caacc 85

<210> 33260
 <211> 329

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-027-Q1-K1-A12
 <400> 33260
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 agtgattaat aaaaaaggcc ggagtgctct ttcattccac tctttcgtac tcttacattc 120
 aaccttatat ttatttcata gcccaacctt attcaaattc actaccgta taaaccacaa 180
 cttttcaaca cttaaaaccc ttactttaca taacttattc accttgtaac acattcccct 240
 ttcgcccttt tacttattac cttccaggcc cttaccatc gccatttcca acattatctc 300
 accctttatt gtcaacatta acccccctt 329

<210> 33261
 <211> 429
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-027-Q1-K1-A2
 <400> 33261
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 ggaacgagct gcgcttcttc gtcctcgatc aactagcttc tctgatcgtc tccatatgga 120
 gagagctgcg tcaagctgcg ctagcctcct agcacaaagg aggtgctact ccgtggccgc 180
 ggtcgtggtg aagggatgcg ggcggaaggc cgtggagaaa gtggccaagc gcatcatggg 240
 caaggaggtg aacaccgcgg ctgcctccgg ggagaagacg ccgtgggtgc cggaccctgt 300
 caccggctac taccgtccgg cgggtggcgc caaggaagtg gacgcggcgg agcttcgcgc 360
 caggctgctc accaagagga tcgccaacta aatcaatcta gcagcagagc agtgcggtc 420
 agattatth 429

<210> 33262
 <211> 422
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-027-Q1-K1-A3
 <400> 33262

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 agcagatgat ttgctgctgc aacaagatgg atgcaaccac tccgaaatac tccaaggcac 120
 gttatgatga gattgtgaag gaagtctcat cctacctcaa gaaagttggg tacaaccctg 180
 ataagattgc cttcgttccc atttctgggt ttgagggcga caacatgatt gagaggtcca 240
 ccaaccttga ctggtacaaa ggcccaaccc tgcttgaggc tcttgaccag atcaccgagc 300
 ccaagaggcc ttcggacaag cccctgcgtc tgccctcca ggatgtgtac aagattggtg 360
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 tc 422

<210> 33263
 <211> 424
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-027-Q1-K1-A8
 <400> 33263

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 tggcgggtga agctcctgtg ttgtgacgta ctaatgtatc gatactactt acaccttcat 120
 ctaaaggcac tcgccgtttc tgggacgcta agaaattcag tttttatgga gtcattgaca 180
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 agattggaca atattatgca ttaacaatat tgcattctga taatgcatta tattaagg 300
 acccaaggca atctattgag ccacaattat gtgctcatc aaagcaagga gacacaagtt 360
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 atga 424

<210> 33264
 <211> 280
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-027-Q1-K1-A9
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 ttctgatct tcatattgtt aatctagtct catactacac tcttaaattt acttacaatc 180
 cttataagat taactttctt acaattttctt gctttgaaaa ccacatcatt attcaaaatt 240
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<210> 33265
 <211> 384
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-B1

<400> 33265

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 cgagttcgtt gaggccgcag cggagtcagg cgaggacggc cacggctgca gctgctgtgg 240
 caactgcaag tgcgaccctt gcaactgctg atcacatcga tcgacgacca tggatatgat 300
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 catacatagg tattgtgtgg tgtg 384

<210> 33266
 <211> 430
 <212> DNA
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<223> Clone ID: LIB3068-027-Q1-K1-B10

<400> 33266

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 aactaaatat aacttgacag ttcaccgccg catcgctcag tacaagacag cttattattc 180
 attctacctt cctgttgcat gtgcattgct gctggctggg gagaacttgg aaaactttgt 240
 tgatgtaaag aacattctcg ttgaaatggg aacatacttt caagttcagg atgactatct 300
 agattgtttt ggtgatcctg aattcattgg caagatcgga actgacattg aagactacaa 360

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gtttgaaaat 430

<210> 33267
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<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 33267

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cagttgggcc gggcatacgt ttcttccagc tctatgtcta caaggacagg aatatcgtac 180
ggcaactcgt gaaaagggct gagatggctg gcttcaaggc cattgcactc acggtagaca 240
ctccaatact tggccgcagg gaagctgaca ttaagaacag gttcgcctta ccttcacatc 300
tggtgttgaa aaacttccaa gcgctggatc ttggcacgat ggacaagaca aatgattccg 360
gccttgcttn ctacgttgct ggtc 384

<210> 33268
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-E10

<400> 33268

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gatatcatcc ctctctcgcc acggggggtcg cctgagatca cataaacaat ggtgaaggct 120
gttgctgtgc ttggtagcag cgatggtgtc aagggcacca tctttttcac ccaagtggga 180
gatggcccta ccaactgtcac cggaagtgtc tctggcctca agcctggcct ccatgggttt 240
catgtgcatg cgcttggtga caccaccaat ggctgcatgt caactggacc aactacaat 300
cctgcgagca aggaacatgg agcaccagaa gatgagaacc gccatgccgg tgatcttgga 360
aatgtgacag ctggagcaga tgggtgttgca aacattaatg ttaccgacag ccagatccca 420

ctgactgggc caaactcaat ca

442

<210> 33269

<211> 72

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-E12

<400> 33269

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gggcgatata aa 72

<210> 33270

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-E5

<400> 33270

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ttgatgcatt agaaggcact gagaaagagc ccaatagaga gtttttgctt ctccagggtg 120

tgaggttcgc tttccgggtt catcagtttg ctgggggttt tgatgcagaa agcatgaaag 180

cttttgaaga gctaagaagc aagatgacca cacaggcatc tgctccacca atatctcaag 240

gctgaagcat aaattgagca caggattcag cacacatctg gtcttacttg ctggagagtg 300

attttttagtt gtgtatatta agtgtacaga ctacagaaga gagattcaaa ttccgggtgtt 360

gtgtcaagca agttgtatat gccaagataa tacaagtcag gtttgttcat ttgtataaca 420

gttttagctc aagcataaca c 441

<210> 33271

<211> 228

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-E7

<400> 33271

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gcgcgcgcta tgctgaggct gctaattctag caccgcgcta gacgtttccc ttttctctgg 120
 tggattacgg actggatcgg accaaagatc gatccagctc ctagtactaa taatatagtt 180
 gtacttgaga aaatgaataa ttgtaattta ttgttttttt gggacctt 228

<210> 33272
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-E8

<400> 33272

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 cgaccttcac gccagtctcg gtctcttccg aaggcgtcgc gcgcggttgt ttgagaggag 180
 aggaggaaga tgaggagtg catctccgtc cacatcgggc aggccggcat ccaagtgcgc 240
 aacgcgtgct gggaacttta ctgcctcgag cacggcatcc agcctgatgg ccaagtgcct 300
 ggagataaga ccgcgggaca tcacgatgat gccttcagca cttcttcag ccagactggt 360
 gctgggaagc acgttccccg tgcaatcttc cgtgatctag aaccacttg gatcgatg 418

<210> 33273
 <211> 56
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-F10

<400> 33273

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<210> 33274
 <211> 55
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-F11

<400> 33274

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<210> 33275
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-F12

<400> 33275

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 cgatgctctc gtcggacttt gccaacctcg cttcggaggc tgagcgcgat gtccgcctag 180
 gcgccgactg gctacatatg gacatcatgg atgggcactt cgttcctaac ctgactattg 240
 gggctccggt gatccagagc ttgaggaaac ataccaaagc atatttggac tgccatctta 300
 tggtcacaaa gccttcagat tacgtagaac catttggaag ggctggcgct tctggattca 360
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<210> 33276
 <211> 386
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-026-Q1-K1-F6

<400> 33276

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 cggcgaggcg gccaaagctcg cccgctacaa caagaagccc accatcacct cccgggagat 180
 ccagacctcc gtcgcctcgt ttctaccggt cgagctcgcc aagcacgccc tctcggaggg 240
 caccaaggcc gtcaccaagt tcacctcgtc ctaagctcct ttcgagtagg tccttaagcg 300
 ccgtggcgcc ttttgactgt atggaatgtt tgtcatctga aaaagtgatc tgagcagntg 360
 catatataan tcttgcatat tattct 386

<210> 33277
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-F7

<400> 33277

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tcggcatggt ctccaaggcc atgtccatga tgaactcctt catcaacgac atcttcaaga 120
agctcgccgg cgaggcggtc aagctcgccc gctacaacaa gaagcccacc atcaccttcc 180
gggagatcca gacctcgtc cgctcgttc taccggcgga gctcgccaag cagcgctct 240
cggaaggcac caaagccgtc accaagttca cctcgtccta agtcctttc gagtatgtcc 300
ttaagcgccg tggcgctttt tgactgtatg gaatggttgg catctgaaag ttgatctgaa 360
cagtgcaatc tataattctg gcatactatt c 391

<210> 33278

<211> 239

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-F8

<400> 33278

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ccaacatggg cagtccttc aaggccatgt ccatcatgaa ctcttcatc aacgacatct 120
tctagaagct cgccggctag gcggccaaac tcgcccgtca caacaagaat cccaccatca 180
ccttcctgca gatccagacc tccgttcacc tcgttctacc ctgctagctc tccaagcac 239

<210> 33279

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-G1

<400> 33279

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tcgccgccgc cagagaggag tgtattgcca tgacgttttg atcttttttt accccctccc 180
cccagaaaaa aggggaaaac aaatacgcgt gtatctttat cttcacatgg tattggttta 240

ccatgcatgt acatttaaaa atatttttcc ccgaaacgga atagaacagc tgcgtgcttg 300
 ttacacatc aaaaaaaaaa attacttgat tattttatta ataaaattt 349

<210> 33280
 <211> 339
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-G12

<400> 33280

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 acctgcgctt ccgcgcgcgc cgcctctgc cccgccccgc ccggagaatt tgttgccaat 180
 ctatcaactc agctaattgt ttgggagctt cttcaacgac atctgatgaa gcagtcccag 240
 tcccagttgt ccagatagat caagactcag accgcgatgc gaccattgtg cagctaagtt 300
 ttggagatcg cttggggggc ctacttgaca cgatgaaag 339

<210> 33281
 <211> 341
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-G2

<400> 33281

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 tcgccgccgc cagagaggag tgtattgcca tgacgttttg atcttttttt accccctccc 180
 cccagaaaaa aggggaaaac aaatacgcgt gtatctttat cttcacatgg tattggttta 240
 ccatgcatgt acatttaaaa atatttttcc ccgaaacgga atataacagc tgcgtgcttg 300
 ttacacatc atataataat tgtttgtttt catatttttt a 341

<210> 33282
 <211> 446
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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cgaggtcgcg ggagctaccg ccaaacggtg tgccggcact ggcttcgcgg cctctgcatg 180
aagggcgagg cctgcggatt cctgcaccag ttcgacaagg cccgcatgcc cgtctgccgc 240
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gacgtcaagg agtgcaacat gtacaagatg ggtttttggc ccaatggtcc taattggcgg 360
tataagcata tcaaagctcc tggngccacc gcttctggtg aggaagttct tcaaaagatt 420
ttgcagatgc gctcttttaa cagata 446

<210> 33283

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-G7

<400> 33283

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ccgtctcccc gccgggcgcg cgtgtcgttc cgcgcggcgc cggcgccggc gcggcggtcc 180
gtggcggcgc gcgcggagct gagctcggcg ctggtgatca gcctgagcac gggcgtgtcg 240
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cccgcgcaga acggcaagac gcacttcgac gccggcgacg agcgcgcaa ggagttcgcg 360
gccctgctca agtccaacga ccccgtaggc ttcaacctcg tcgacgtcct cgctggggc 420
tcgctcgccc acatcgtcgc ctactacat 449

<210> 33284

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-G9

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agaagttcga tacctacca gcctgcgcgc acggaacaat ggcgcacgcg aaggccgtcg 120
ccgtcctcgg cgccgtggtg atcgcgtcgc tctcctcgc ggctgagagc cgccacattg 180
cccgaaga cctgggcgtc ggccttggtg ggggcggcag cggcggcggg ggcggcagcc 240
tcggtgtcgg cacgggtggt ggcgtcgggg ttggtacagg cggcggactt ggggttgga 300
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<210> 33285

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-D9

<400> 33285

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cacaagaagg acgaggagca ggccgcggcc ggcgggtacg gcgagtccgc cgagtacacg 180
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aagatcgagg aggaagtcgc ggcggcgggc gccgtcgggt ccggcggtt cgccttccac 420
gagcacccag agaagaaga 439

<210> 33286

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-B5

<400> 33286

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cgaggtgccg gcgagggtcc cggcggccca ggtggccgag gcgcccagg cgaagaaggc 120
 gcccaggag aagaaggcgc ctaaggagaa gaagctttcc gcggcgaaga agccggcggc 180
 gcaccctccc tacgtgaga tgattgtaga ggcgatcgct gccctcaagg agaggaaggg 240
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 caacttt 307

<210> 33287
 <211> 331
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-B6

<400> 33287

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 gcccaggag aagaaggcgc ctaaggagaa gaagctttcc gcggcgaaga agccggcggc 180
 gcaccctccc tacgtgaga tgattgtaga ggcgatcgct gccctcaatg agaggtaggg 240
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 caacttccgc aagcagctca ctgtgcatct g 331

<210> 33288
 <211> 298
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-B8

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 accggactgt attatgccgt ccagggcgat taatttacta gtgtgttcga atctatatgt 180
 tataacagca cctacgtgta ttaagacggc atgtaaagct gttgcatcta tattaggtgt 240
 gaaaccatca ttaacgtcat caactatgcc atatataaaa agcatggcgg ccggttta 298

<210> 33289

<211> 330
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-026-Q1-K1-B9

 <400> 33289

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 ggcggcgcgg ccggtgaccg gcatcccat cagcagcccc ggccccgcgg tcgcggccag 180
 ccagtgttcc tcgggcctct ggcctgctt cgacgactgc ggcctctgct gcatgacgtg 240
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 gtgcgcggcg gcgggggcca tctacacgct 330

<210> 33290
 <211> 143
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-026-Q1-K1-C1

 <400> 33290

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 ctctttactg cgtcccactt ttc 143

<210> 33291
 <211> 348
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-026-Q1-K1-C10

 <400> 33291

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 tcggcggcct cgcctgggccc acggacgacc actccctcca caacgccttc agcacctacg 180
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gcttcgtcac cttcttcacg gaggaggcga tgcggaacgc catcgagggc atgaacggca 300
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<210> 33292
<211> 115
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-C11

<400> 33292

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<210> 33293
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-C12

<400> 33293

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aaaaaaaaa aaaaaaaaaa aaaaaaaagg gggggcccctt ttaaagggtcc aaattttact 180
tccccttctt tgcaaattct tatTTTTTTT tttgggcccc caaatttaat tcacttggcc 240
gttttttaaa aacaccgaac ttggaaaaac cctggttttc ccaattttat tccctttgaa 300
aaaaatcccc tttttcccat ttggcttatt accaaaaagg cccaccccaa tcgcctttcc 360
aaaaatttgc aacccttat tggcaattgg tacccttcc 399

<210> 33294
<211> 211
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-C2

<400> 33294

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tttaaattat ccaatttttt tttcttttta t 211
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<210>	33295
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<400> 33295

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<212>	DNA
<213>	Zea mays

<400> 33296

<210>	33297
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<212>	DNA
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<400> 33297

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cagtccatac ctagtctagc tcgaatcatt atccatggct gacgagaacc accaccacca 120

ccacctgttc caccacatca agcacgaata gcacaccctg cactgccttt actgcaagtc 180

cagcaaatac acgcacgcca ctgtgaaccc agtcacatca ccgccagaa ccagttcaac 240

aagtacaaga acgaggacaa gcaaccccag cacaagcatc acctctgcaa ggccatctcc 300

atcgtcgaca gcgccttcgc actctactag aatcacgagg cgaagaatga cacctatcac 360

gccacccgtc acaagatcaa ggatgatcgt ccctcatctg acatcctcat 410

<210> 33298

<211> 131

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-D11

<400> 33298

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tctaggtcga ttcattatcc atggctgaat agaatctcca ccaccacctc ttgttccacc 120

acaacatgga c 131

<210> 33299

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-D2

<400> 33299

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ggaaggggtg aaccagccag gttttcaagg cacagcttga tggcggaaca tttgctgcca 120

taaagattct taaaccctcg gttgatgcaa tacacgagtt tgttacggag gttgagaccg 180

taaccagctt gcagcatgag aacattgtag cactaagggg attcagcttc gagaactaca 240

accttggtt ggcatatgat tacatgcccc gagggagctt ggacaaagct cttcatggga 300

agaatgatgg cacagagttt cttgtctggg agaggagaat taagatagca attgacatcg 360

caagagcact caaatttctc catctcggcg gtgtgaccca gtctgtgatc catggagatg 420
ttaagtct 428

<210> 33300
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-D3

<400> 33300

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tgcgaggtat ttctgaagag ctgcattggc caagagcgct gtggggtaag cgcggttcca 120
gatgcattcg gtggagatcc atgtcctggg actatgaaaa gagcccttgt tgaggctata 180
tcgcgatgag tcatatgatc catataacgt actggtttct acaataatgt taccctatat 240
taagcttgta agaggtgaaa gtggtggcat ctgcgacaca cggattgcca gggtttacag 300
ggattaattg tatggtagat ttaatcatcg tatgtgtaat gaacttaggg tcacattaga 360
tttgcattgg tgaaatggtt 380

<210> 33301
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-D6

<400> 33301

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cttctgtggt agggctgaac aggagcatgg tctgaggccc cgtccaacga atggtttcat 120
gagtccaaac atggggagag ctggtggcga cattgagatg ggtagaaaac cagtggcttg 180
ggatgagcct aggatggcgg ctgaaattgg tgatttagga gcaggtctga gcaacctgtt 240
ggaggacaag gatggcaggt ttcgtaccac atctccagat ctcagccgcg acgcccttgc 300
ggttgaggga ggcttagaag agcacggatc ctcagcgatg aaccctgggc gctcaagctg 360
gggaagtga gcaagtcgat g 381

<210> 33302

<211> 216
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-026-Q1-K1-D8

 <400> 33302

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 gttctgtttt agggctgaac aggatcatgt tctgaggccc cgtccaacta atggtttcat 120
 gagtccaatc atggttagag ctgttggcga cattgatatg ggtagaaaac cagtggcttg 180
 tgattagcct atgatggcgg ctgaaattgg tgattt 216

<210> 33303
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-026-Q1-K1-B2

 <400> 33303

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 tctgggatca agaggctggt cggtagctgt cagttcctgc acagacaaga atgggaagtg 120
 gagtcatct gccagcaaga aaccacggt tcttgacgaa cccaagtggc gagccaagca 180
 gccatgtgag gagcgtggtg cctggcaatg cctcgtctc agcaatgcca tcagggcagc 240
 cttcatagag gttgacatat tctgggcagt caatattctt cggtggtccc atgctgagca 300
 cccctggcgt gggcgccaat aggaatgagg cagactcaag agcacgctcc gagggaagca 360
 gagatcctaa tgccctgtgt gagaaaacta ggact 395

<210> 33304
 <211> 330
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-025-Q1-K1-G6

 <400> 33304

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 ttgaccacga agacccttaa ttccgatcc ggggggaaaa ccccggtttt tttcccgaac 120

ttaacttctt cacatccctt gaatatgett ccgttcccgg gccccaccgt ctattcaagg 180
 cttcattccg tctcaacttg gaaacaatgt gctcgctaag tctccttgcc agtttccggc 240
 catacattgc ccaaaaaacaa gcaactggctc aatgctgtcc attatgttgg tcatgcagag 300
 cccaattggg aaagaaccca agataacatc 330

<210> 33305
 <211> 371
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-H1

<400> 33305

cggacgcgtg ggccggcatc gccgcgctca tgaccgtgct ggtgggtcaac aaccgcaagg 60
 aggtcgacaa catacccagg agccgtgtca agtgctacgc cctcgcgccc gccaggtgta 120
 tgtcgtcaa cctcgcgctc aagtacgtg acgtcatcaa ctccgtcgtg ctccaggacg 180
 actttttgcc aagaacaccg actccgctag agtacatttt tggttctatc ttctgcttgc 240
 cctgcatgct atttctcatc tgcttgagag atacatttaa acaagacaag agaaaattta 300
 tagatccaag aagattgtat gcacctgggc gaatgtatca tatcgttgag aggaaatttt 360
 gcagatgtgg a 371

<210> 33306
 <211> 163
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-H3

<400> 33306

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 agattgtgtc ttgaaacaag tttaaaatta agattactcg tggcaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa acataaaaaa aaaaaaaaaa aacaataaac aaa 163

<210> 33307
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-H4

<400> 33307

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gatgtgagca agtactttgt gagcagtgagg tttgctttcg tccatgcaaa ctccattgct 120
gatattgtgg ctgttgaggc tatccctgtg gatcagatcg acccagcatt ggttcagaag 180
ggtctcgtcg aattcactgc caagcttggt gcggcctcta ctgacctgga gaaggctgag 240
gccagatcg gagtcgatgt tcacagtgcc ctcaatgctg cattgaccgg ttaattgggtg 300
gcattttaaa ttgtcttgta tttttcatct acagttttag agtgagtta agtttgcaaa 360
ctcatgggca tgggatggac ggaatgatcc taaataaatt atactccatc taaaacatgg 420
acatatgttt ct 432

<210> 33308

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-H6

<400> 33308

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gagaccccggt ggtagccttc aagacggcca tctggttctg gatgacgccg cagtcgcccc 120
agccctcgtg ccacgccgtg atgaccggcg actggaggcc ctccgccacc gaccgcgccg 180
cggggagggt ccccggtac ggcctgacca cgaacatcat caacggtggt ctagagtgcg 240
gcgaggaccg ctccaccgac ggcgccaaag ccgccaagga ccgggtcggc tactacaaga 300
ggtactgcgg tatgctcgga gtggggtacg gggacaacat ggcatgcggg agccagaagc 360
cttacggagg atgatgacac tagtagctga tctatggttg ctgcaatgca agccttcacg 420
ttgtgttgcc tctctaccta aagaataaat caagc 455

<210> 33309

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-H9

<400> 33309

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ggggatcttc gtcgccctcc tcgccgtggc cggcgaggcg gctgtgttca cggtggtgaa 120

ccagtgtccc ttcaccgtgt gggccgcgtc cgtgccgggtg ggcggcgggc ggcagctgaa 180

ccgcggcgag agctggcgga tcacggcccc cgcgggcacg acggccgcgc gcactctggc 240

gcgcacgggg tgccagttcg acgcgagcgg gcgcgggagc tgccgcacgg gggactgcgg 300

cggcgtgctg cagtgcactg ggtacgggcg cgcgcccaac acgctggcgg agtacgcgct 360

gaagcagttc aacaacctcg acttcttcga catctgcctc atcgactgct ttaacgtgcc 420

catgag 426

<210> 33310

<211> 447

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-026-Q1-K1-A1

<400> 33310

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gactgcagat gatgttggtg ctcttcttgc ttagactgt acgcctatgg atgacaatgg 120

ccgccagggt gatttggtga cagaatttgc taataatggg aataagataa catgtgatcc 180

agagatgcag agtcatatcg atgcatgtat ttctaaaggg agagctgaat ttgaagtttt 240

tgtcctgcag gcttattctc ctgaggaatg ggaactggct acattggtgc tcacacgacc 300

taattatcag attaagttca aacagaccgg taatgttgta attgacgaga agtactcaca 360

aagtctacag acaaaaattc ctaatgggcg cacaactcag tttgttttaa taactgcggg 420

tacaactctt ncatttaaca cacaggg 447

<210> 33311

<211> 402

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-026-Q1-K1-A10

<400> 33311

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agagggatac aaaaaaatgc ggtggatggt taaagtcatg gagagagcac aacagaagac 120

agctgccttc tgaagcacia gatagatgaa gaatccaagg gtgatgaaca acaagaatta 180

ggtgttacag tggatgatga cttggtgcat gaagacacgc ttgaaactga caatgctatc 240

gagcatacag atgatgggtca acacgaccag gatcaaagaa ccctgaaagg caaacgagga 300

cacaaaacct gcaagcatcg canacaatga cgatgttgag attgtaactg agacacctac 360

tggactccaa gtcctgtgg agtcacgtat gactgattct ga 402

<210> 33312

<211> 190

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-A11

<400> 33312

caaggacctt cggcgcccgt tcaggatcca catcttccc agcgagttct tggttgaccg 60

gttctcttcc ggaccacctc caaagctctt ggtgtagctt ggcaactctca ccaatcaagt 120

tttcatgtct gatctcgaca ttcagatccc aactggcttc gatcccttcg gttaaggcca 180

tgtctgggac 190

<210> 33313

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-A12

<400> 33313

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ggtggacgct ggacagcaat gcccgggagg ccaaggagcg gctggaccag aagctcagga 120

ccaagaggga ggccgccatc aagaggcacc acagcacggg gagcataaag ctgggcgtgc 180

cgcaccggag cgcgggcgcg gacgagcgcg gcgagagctc cgcgccggcg atggccggcg 240

tgcagcggga ggtgtactcg aagaagggcg tgatgcggcg gctgatgcgg tggagccggc 300

cgcggtgggc cgcggcggag catgcggagt gcg

333

<210> 33314
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-A3

<400> 33314

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gactataggt ggctggctgt ctcgagtatt ggtaaagact gttcggagtg cgtcgttcgt 120
tctcgtccag aacagctggg ttctgggcat ccggggaaga aacggaggcg ttgacgcgtg 180
tgtgtaggtt cagaagaaac cccaataaga taattgcgtt gttatatgat gccgctcgca 240
ttattaggac gaaaaaacia aagaagaatg agaactcgga tacataggtg cacacacgac 300
ctaattgcta gaataaagct cccacagacc gcttatg 337

<210> 33315
<211> 304
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-A4

<400> 33315

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ggggctatat gtggctgacc tcgacttttag tatcgctaaa gactgatccg attgctttgt 120
tctttctcgt ccaaaacata atgtatttgc ccattcttta cagaaacgga actggaaaca 180
cccttggtgt gcctaacata ataccctagt aagataattg cgttgctata tgatgcctat 240
tgcattatta ggacgaaccg attggtcttt ctaacatttt cgcagcctga atggataaag 300
gaac 304

<210> 33316
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-A6

<400> 33316

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tgctactttg ataccgggat ctatggtaag gctaagccga ccactaaact aggactccca 180

gaaggtgctc ctgaatcaga taacaggctg gcgcctgctc tgattgtcag atccgggtgca 240

taatgaccac ttgacgaatg gcactgccga tgaggcagcg acccagaatg ctgctatcgg 300

tgatatcatc tatctatggc aggatctgca tcttccac 338

<210> 33317

<211> 269

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-A9

<400> 33317

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ccacataata atcttccact gtgaagagct tgagcgtggc cttgtatcat ggcagctttt 120

cgctcgttg tacatagtct agtttctcat cactgtttta gattcagcac agaaatgcag 180

ctgccgtctg cagcactggt gcagctatga agctgtatgt accttactgt tgggtgacta 240

ttttagttat tgctaatac aggggatac 269

<210> 33318

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-B10

<400> 33318

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tgagcggatc gagatggcgg cgtcagatgt tgagtaccga tgcttcgtcg gcggcctctc 120

ctgggccacg gacgaccact cctccacaa cgccttcagc acctacggcg aggtcctcga 180

gtccaagatc atcctcgatc gggagacgca gaggtcccgc ggcttcgggt tcgtcacctt 240

ctgcacggag gaggcgatgc ggaacgccat cgagggcatg aacggcaagg agctggacgg 300

tcggaacatc accggtaacg aagcccagtc ccgcggctgc cgtcgaggct gcagcggcag 360
 cgggtacagt gg 372

<210> 33319
 <211> 357
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-B11

<400> 33319

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 aaataaaaaat aaaaaaaaaa aaaggccggt cattcaaaaa gagtggagct cctttaagat 180
 aggttatcaa tggcaaaacc atttcctatc cgaagacaat taaattccat ggctaagggt 240
 tttaaaccgc ttgcatgtta aaaactatgc cttacgcaat cgaattgatt tacagaaatt 300
 aaccctttat ggcgaatgtg actttccaca aagcccagta ttaatcacgt ttcccaa 357

<210> 33320
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-B12

<400> 33320

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 tcctactacg atcatgtgca gaagcgccat gaggagaagg gctgcctata tgcatgcctg 180
 ttcactgcgt gctgctgctt ctgctgcttc gagacctgtg agtgctgcct cgaagccatc 240
 tgctgctgct gctagttctg cttggagggc atgggcgtcc atcatcgtgg agatgtggcc 300
 atgcggggaca cccaccgtcg aataaaatgc tgtacttata tgcacgcacg ttagaaatgc 360
 attagtgtct gtttgatgtg atcttgtgtg tgtgcgcgcg catcttcatt tgcac 415

<210> 33321
 <211> 441
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-E4

<400> 33321

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ccgctcgccg gtatggcgat ccgcaagggg tcttcgtacg ccgtcgcggc acttctcgcg 120

ctcgccctctg tcgccgccgt cgcaggggag gtcttcttcc aggagaagtt cgaagatggc 180

tgggaaagtc ggtgggtcaa gtccgagtgg aagaaggatg agaacatggc tggatgaatgg 240

aaccacactt cgggaaaatg gaatggagat gccgaggaca aaggtattca aacctccgag 300

gattacaggt tctatgccat ttcagccgaa taccctgagt tcagcaacaa ggataagacc 360

ctgggtgctgc agttctctgt gaagcagcag cagaagcttg actgcggtgg tggctacgtc 420

aagttgcttg ggtgggtgatg t 441

<210> 33322

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-E6

<400> 33322

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gcctgatcta atgttaaggg agcgtttttc agaacgcctg tcggcaccgc caagatggcg 120

aactatgcct gctctctgcg aaaccacagg aaactattgt atatgctcga accgatactg 180

acgtgcaaat cgatcgtctc acttatgtat acgggcgaaa gactaattgt accatctatt 240

agctcgttcc ctacgaatgt tccctcacta tagctgtatc ccacacaagt tctattgtct 300

aaagccaacg attataggca tcttaggcgc aatat 335

<210> 33323

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-E7

<400> 33323

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 accattttgc aatgaaatta gaggaatggt atggtaaaac ttcgtttaaa acgatgtggt 120
 agaaagcaac gtgcgacttg aaggacatga tgcattgtgg atttgcctat ccatcatttt 180
 ccatagtaat gaaaatgctc ttggctcgac atagtctggt ctattcgtec cgaaccgaat 240
 tttcgtggg ttgtttgtaa gtaaagtaaa tagtacacga tggagctcga gaggacagaa 300
 tttctttttg atcaaaggaa agaattctagg gttagtgaat actaataaat taagccaact 360
 ttgtcagtct atccttaata tagaaatcaa aagggtaaaa ttagaaaaag gctaattttg 420
 gaaagatgga aaaacttttt t 441

<210> 33324
 <211> 251
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-025-Q1-K1-E8
 <400> 33324

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 agggcgccgg agttcgctgc gtcgttcggt aacttgcggg gtcaatggga ggagggaaag 120
 acaagcatga cgagagcgac aaggggctct tctcgaacat gatgcacggc gttgccgggtg 180
 gtcattgggtg cccccaccag ggataccctc cgcagggtga cccaccgcaa ccaggagcat 240
 accgcctcc c 251

<210> 33325
 <211> 434
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3068-025-Q1-K1-E9
 <400> 33325

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 ttaaactctgt ttgcctaaaa tttgctgctg aaaacctttc ggctgtgatc cggaccgagg 180
 ggttcgacta tctcaaagac aactgccccat ccctgcagtc agagatactg cggacagttg 240

ccgggtgtga ggaacaatgt agcagcggcg tgaaaagcca gagcgtatgg gcgcagctct 300
 ctgacggcgg cgacaccagc ggtcgcaggg tgaggccaag ggtctgagac gcgacccctgc 360
 aagcactaac ctttgtaatc aaactgtggt agtgtaaaat ggatacagct atttgaattn 420
 taatctggga cgac 434

<210> 33326
 <211> 359
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-F1

<400> 33326

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 ccaaattcaa gggaatggat caggcggcag ccatgagccc cagcccacgc gccgccgccg 180
 gcatccactg ggaggcacac gggcggcttc tcacggcgtg cctcgtcgtg ctcaacgtcc 240
 tcctcgtcct cctcgtctac gctacttct ggcgcttctt ctcgcgctcg cgcacgcgcg 300
 gcggcggcgg cggcggcggc ggcgaggacg acgactcggc cgatggggcg tcggcgtct 359

<210> 33327
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-F12

<400> 33327

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 tcacacgagc cctcgacatc cccctccac gatttacgag gcggctggaa accatgcact 120
 atattgccga gtatgagcat gaagaggcac acgacggcct gctgcttgag ctcgctaggc 180
 tcaactttgt ccttgtgaga gcgcttcacc tcaggagct gaaggacctg tcactatggt 240
 ggagggagct ctacaacact gtgaagctcc cgtacgctcg ggaccgtatg gtggagatct 300
 acttttgagc ctgtggtatg cttcatgagg aggagtactc cctggcacgg atgttcttcg 360
 ccaagacgtt cgggatggtg tcactgatgg acgacacttt cgatgtccat gctactc 417

<210> 33328
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-F5

<400> 33328

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gtacttgcaa tttctatccc ttcaactctt tcttccgcc ccgtgtttca ggaataatgt 120
tctggagatg aagaaacgct tgcgtgggcg tgcctgcagg cacgcgtgta gtagctgcgg 180
tattagtata tatgcttaga tgttcagtca ctttctttaa gtacaatttg gcgctggacg 240
tgtaccttat tttactatgt atccgtgaca acagctatgt gtctgctccc tttattttct 300
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tat 363

<210> 33329
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-F6

<400> 33329

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gttgctggct gcggagcacg aggctcagca aattgtgaat gccgctagag ctgccaagtc 180
agcgaggctc aggcaagcaa aagaggaggc tgagcgggaa atagccgaat accgtgcca 240
gatggaggct gagtttcaga ggaagggtgc agagagcagc cgcgactccg gtgcaaactg 300
caagcgtctc gaggaagaaa cggcggcgaa gatcgagcaa ctcaccagc atgccgcaag 360
catctcccc gatgtcattc agatgc 386

<210> 33330
<211> 272
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-F7

<400> 33330

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cgggagggca aggcaaacat ctgcccctc ctttcccgaa cccgggttgg atggagcggg 120
acttcttggc cgcgatcggc aaggagcagc agcaccgcg caaggagaag gcaggcggag 180
gcgccgagga atcagcttac ttccgggagc cagccgtccc ggcgatggac tggctcttcg 240
cgagcaagcc ctgcgccggc cggcgctta tg 272

<210> 33331

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-F8

<400> 33331

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gctccagtgc gctggagtag gctgcggtgc cggggccgca ccgactatgc acggcttcat 180
gccgtcgcaa cttggagaca tgggtgctgc taggtcgact gccccattc cggctataca 240
tgggtcaaag acaggcgcta gctcaatgct gaccattaag tgggtcatgc ggagcccaat 300
tgggaaagac cgtacgataa catctgcttc atgggtacgc cagtagcaca tccacgtttg 360
ggactgttgg ctctgtaccg atc 383

<210> 33332

<211> 82

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-F9

<400> 33332

aagaggacgc aaactacaaa aataaaaaaa acaaaaaaaa acaaataataa aaaaaaaaaa 60
aaaaaaaaag cgggggggtgt aa 82

<210> 33333
<211> 84
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-G1

<400> 33333

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ccgacgcgtc cgccacgcg tccg 84

<210> 33334
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-G10

<400> 33334

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tggttgctgc gagagggtccg ggccttcgtg ggatcttgaa aattgaatgt tctaattggag 120

tccaaggggtg gcaagaagaa gtctagcagt agtcgttctt cctgatgta cgaagctccc 180

cttggtctaca gcatcgagga tatccgccct gcaggcggca tcaagaagtt ctccgctgct 240

tactcgaact gcgcgaggaa gccatcctga tatctctgtt gtcaccccca tcttagtagc 300

gtagaaacca cctgcatttt cattttgatc tccctaattc ctccggctag ctgctttcca 360

atgacaaaaa gatatcaaag accactttcc gtctttcttc cgtggcctgt ctgtcatctg 420

gctctgaaac 430

<210> 33335
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-G11

<400> 33335

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gccaccaatg gccactgccg aggtccagac cccgaccgtc gtggcggccg aggaagcgcc 180

cgtggtggag accccgccgc cgcccgctgt gcccgaggag tctgcccccg ccgaggccga 240
ggccgaggcc gaggtgctg ctctgtgtga tcccgaggag cttcccgcgg ccgagcagca 300
ggcagccgcc gaggcggagg ccgcggctcc tgctggtgcc gaagagcccc tcgcggccga 360
accggccgcc gaggcggagg ctgtgtctcc tgctggtccc gaggagactc ctgcggtcga 420

<210> 33336
<211> 230
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-G12

<400> 33336

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tttcttatcc ccaactgtcca agtccccctt tccacacctt tttgagtcag gtagcccacg 180
taccggaaaa acctccgacg gccgcctttc ccgatcattc tgctttcttt 230

<210> 33337
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-G2

<400> 33337

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ccagtgcgct ggagtaggct gcggtgccgg ggccgcaccg cctctgcagg gcttcatgcc 180
gtcgcagctt ggagacaagg tgctcgctag gtcgctgcc cgggttccgg cgatacatgg 240
cccaaagaca ggcgctggct caatgctgcc cattaggtgg gtcatgcgga gcccaattgg 300
gaaagaccgc aagataacat ctgcttcatg ggtcgtcgag tagcaaatcc acgtttggga 360
ctgttggtt tgttccgacg ggatctagag atggcaatgg caatgacaaa tcatattcgc 420
actaggttat tcgttccagt actttcacgg acact 455

<210> 33338
 <211> 318
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-025-Q1-K1-G3

 <400> 33338

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 ggccggcgca ggggtgggtggc ggccggctacg gaggcagtgg ccgctaccgc ggtcggcgca 120
 aggggttggtg cgccggctgg agggactgat gtgtgggccc atcctggctt ctggcgagtt 180
 atcttatata tctatagtat tgtgttaccg atcgcttctg tcaccgcgtt agtggttcgat 240
 ctacctttgg attacgtgtt ggtacccctg ttgttccctt tggctgctcc cgctatgaaa 300
 cgagacgaga gaataatg 318

<210> 33339
 <211> 380
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-025-Q1-K1-E3

 <400> 33339

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 cacagggact ctttctgaac acaatgaccc attcgatgag ttgggtcctga tgcaggagcc 180
 tgttattcct ggctcgttac tgcgagcatg aacaatcggc cttatgcccc tgattgacca 240
 ggggtgaaaag gattacaaga tattctcaac ctgtgctgat gatcctgaat atcgctctca 300
 ctacgacatc agtgagctgt cttctcatcg tcagcacgag atcaagcggc tctttgaaga 360
 ttattagaag gatgataatt 380

<210> 33340
 <211> 363
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-025-Q1-K1-B8

 <400> 33340

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 tccctgcagc tctgccactc agcaaaggga cggaggagga aggaggaggg gaggcagtcg 180
 ccgccgtgga cgccgccgga acgagctcgt ggccgtgctg caacaagtgc ggtttctgct 240
 acctgtctga cccgccgcag tgccaatgcc tggacttctc gacggtcggg tgccaccag 300
 agtgaagcg gtgcatcagg tacaccgtcg acggtggcgt cgacatcccg cccgtgcacg 360
 cct 363

<210> 33341
 <211> 354
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-C1

<400> 33341

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 acaaggaaga gctctgccgg gtgatggact gccagaagct gtccctggag gcctgcacac 180
 acgcggcgca gaacgagcgc ctcccgctcc gcgtcatcct gcaggtcctc ttcttcgagc 240
 agctccagct gcggagctcc atcgcggaat gcctcatgat ctgagagccc ctagacggcg 300
 gcggcggtgg cttctcgcgg cagctcggcg gcctgcctgt ctcgggcgag cacc 354

<210> 33342
 <211> 394
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-C11

<400> 33342

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 atagactcaa atagtgcagt gtcacagaa aaagcaaact gcacacatga aaccttatgg 180
 gtttctttgg cagacatcgc ctttattaat ggacatcttt aaattagctt gtaccgatac 240

atgctatgtc cattagagaa acgacatcct gaggcactcg ctttcgctcc ggactgtctt 300
 aggggttatcg ctgatataga tatgggtttac atgcttctat acccttagaa ctcttttcgct 360
 ccgaatctcg ggacgagatt cttttaaggg ggga 394

<210> 33343
 <211> 370
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-C2

<400> 33343

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 ccgagagaag caaccatgag acctcaggcg tcgttactcg tcacactggc tggtatcgtc 120
 gtcgtccctg cagctctgcc actcagcaaa gggacggagg aggaaggagg aggggaggca 180
 gtcgccgccc tggacgccgc cggaacgagc tcgtggccgt gctgcaacaa gtgcggtttc 240
 tgctacctgt ctgaccgcc gcagtgccaa tgcttgact tctcgacggt cgggtgccac 300
 ccagagtgca agcggtgcat caggtacacc gtcgacggtg gcgtcgacat cccgcccgtg 360
 cagcctacc 370

<210> 33344
 <211> 393
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-C4

<400> 33344

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 gaggtgagt tcaagacca cccgatgaac ttctgaacg aaaggaccct gaaggggacc 120
 ttctttggca actataagcc acgactgat ctgccaaatg tgggtggagct gtacatgaaa 180
 aaggagctgg aggtggagaa gttcatcacg cacagcgtcc cgttcgccga gatcaacaag 240
 gcgttcgacc tgatggccaa tggggagggc atccgctgca tcatccgcat ggagaactag 300
 atttcgctgt ctagtttgtg atctggcctg ggcttggggt taataaaaaga ggcaatgcta 360
 gcctgccctt tcgatgagga ggtacatata cgc 393

<210> 33345
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-C6

<400> 33345

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gtcataaata aagaggggtgg gtgtgcttgc ggtattcatg gatggccatg gatctgagca 180
catgacgttg gatgctttct taaggctctc gtggatcttc tatatttgga agaagctgta 240
aaataatata tcgccatcta gtgttggcgt tggcttgtat gtactttgta cctgctttat 300
tattttgtgc aatatcgagt aacctaatgt ataaaaaaaa aaaatacacg acgtgatcgc 360
at 362

<210> 33346
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-D1

<400> 33346

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gggattaacc gagcggccttg aagagccacg aacaaaagct gcaaaacgct ttcaaaatac 120
tgaaaaggaa tcttcacaag tttcaggcag aaactgcttc tcccctacaa tcggcctctc 180
aacgcatacg ctacatgttg tcccatgacc ctccacagcc agaacacttc ttcgtggctc 240
tcgagagcaa cgcgcctatg caacctacat accatactat ggacatgaac cagtatccag 300
agccagcgcc tggcggctgt taccctcttc ctttgattgc 340

<210> 33347
<211> 303
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-D11

<400> 33347
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cctctccgaa gcttcgagaa caacagcagg ctcaacggtc cagagctaca aggattgggt 120
ccttatgatt ttggatgtta gatgccgac aacaatgtac caccttcccc agttgaaagg 180
gggaaagcca agatagtatt atcaatagaa acctagcttc aagaatgtcg tgactatata 240
tatgtatgat attaagacga gatttgataa ggggtggcaaa aaaaaataag acacgccctg 300
taa 303

<210> 33348
<211> 101
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-D12

<400> 33348
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ggaggggaaaa acaaaaaaaaaa aaataaaaaa aaaaaaaaaa a 101

<210> 33349
<211> 118
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-D3

<400> 33349
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ggcgttttcc aatagggatg aaggtcccct aaagatagat aactatgact ttgaaaag 118

<210> 33350
<211> 96
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-D4

<400> 33350
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ttgtaggtct attaccagag ttggcaacct cccaac

96

<210> 33351
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-D5

<400> 33351

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agagaccgat agcgaacaag taccgcgagg gaaagatgaa aaggactttg aaaagagagt 120
caaagagtgc ttgaaattgc cgggagggaa gcggatgggg gctggcgacg cgcaccggcc 180
gtatgcggaa cggctcctgc tggctccgcg atcggctcgg ggctgggacc gttgtcgccc 240
gcgccggcgg ccaaagcccc ggggccctaa gcgcccccg cagccgtcgt cggcgcggaac 300
ggtatccgcg cgctctttgc gcgccccctc gggcg 335

<210> 33352
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-D7

<400> 33352

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atggagggtt atcagcttga gaagccaacc gattcattct taaatcacat acgatccaca 120
aggtcacagc atatgcttga acagctcact gatcttcaga cgtggtagca aatgatgtgt 180
gaagcatata acttcctaac aagaaagctg gatgagacca gcatccaact tcatgtccaa 240
gtgtgcgttc acggcgccaa ctgattactc tactaccagc ggtactcctt gccacagcca 300
gccccataac atgttgctct ttgattattc ttt 333

<210> 33353
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-D8

<400> 33353

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tccggcgatc ctgcgcgcga ttcgactatc cccctgccct tcgctcgccc tcggcgccga 180

tgggacaggt gcatcccacc cgcacgcgct ggggcgggtgg ctcgagcggc ccatgtcctg 240

ccacgacgcg cacctcaccg gcgacgaagt catcgaccgg atcctcgacg tcatcaagag 300

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<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-E1

<400> 33354

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agcttgatca gcttgagaag caaattgatt catccttaag tcacataaga tccacaagga 120

cacagcatat gcttgatcag ctactgatc ttcagaggag ggagcaaag atgtgtgaag 180

caaataagtg ccttagaaga aagctggagg agaccagcaa ccaggtgcat ggccaagtgt 240

gggagcacgg tgccaactta ttactcggct acgagcggca ctctcggca cagcaagccc 300

catcacatgt tggcaatgga ttattctttc atcccctgga agctgcagca gagccaaccc 360

tgcagatcgg gttegtctcc gagcatatga ataact 396

<210> 33355

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-B6

<400> 33355

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aaaaaaaaa aataaaaaaa aagcagaata ttataaaaat ttagaccact aataaataat 120

aaaaacaaaa aaaacaataa aaaaaattaa aaacataata aaattttaaat cccccctttt 180
acacaatcca acttttactt catcattcat tctaattcta acatttttaa ttttctacc 240
taattaaata tatttatcca tccttttcca ttatcttaat ttaaaaaacc ttttcattcc 300
ccatcctaaa ttctcttaat aacaaacctt tttat 335

<210> 33356
<211> 217
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-E10

<400> 33356

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aaatctatct acctaaaatt ttcttcttaa aactcttttc tttattatcc tctcctaata 180
tttactatt tcaaatacaa ctttacattc tttctac 217

<210> 33357
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-E11

<400> 33357

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cgccaagacg ttcgagatgg tgtcactgat ggacgacact ttcgatgtcc atgctactct 420
agacgagtgt cacaagctca a 441

<210> 33358
<211> 65
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-G5

<400> 33358

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ctatg 65

<210> 33359
<211> 65
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-G6

<400> 33359

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ctatg 65

<210> 33360
<211> 470
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-G8

<400> 33360

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gcctcggcgt ccacgtctcc ttcgtcaggt caacaaattt ggattcatgg actccagaac 180
aactgaaaat gatggctctat ggcggaaata accgtgcgca agctttcttt aagcagcatg 240
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gacagttgct tgctaaagac gttgctaaaa gctctacaga agatggaaac aatagttggc 360
catcttcccc agttgcagca tcccaggctc caaatcaagc tgctgcattt ccagatctca 420
agctgacaga ggtgtcaaaa gaaaatgtaa gtgaaaagaa agattctgag 470

<210> 33361
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-G9

<400> 33361

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gcgagagggt ctggtagggc tctacgagcg cagctcaaa gagatcaagg cgtccccga 180
agacgagggt taccgcaagg ccgttgaatc cttcaccgtt caccgctcc agatctgcca 240
ggaggaggag gactggaagc gcatcgagga ccgaatcgga tgcgggcagg tcgaggagct 300
catcgaggag gccgaggacg agctcaagct catcgctaaa atgattgaat gggatccatg 360
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<210> 33362
<211> 265
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-H1

<400> 33362

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ctatataccc atcctctaca tcaataactg tatcttcttc ttcattctta ttaccatcaa 180
catgtactct aatcaccaca attatattat aactaatcat gatcattcca atctcactgc 240
ctactctatc tacatcatct ttaac 265

<210> 33363
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-H11

<400> 33363

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 gctgaggcca ccatctccac acccaagggt gcacctgaga ccactaccat ccacattgag 180
 gttgcgga aacatgcagt agttgagaag gtggaggagg acaaggagga ggcactaaca 240
 gtggcgcgca aacaagagcc agcagccacc attgagcctc agcagattgc tagtgagggtg 300
 accacttcgg aagtggcggt cgtcgttgtc gagcctgaga acaaagagga ggaggaagtt 360
 gtggagaaga ccgtcatcga gaaggagaag ccatcagcag tccatgcaga ggaaaatatt 420
 gccaccaaca 430

<210> 33364
 <211> 77
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-024-Q1-K1-H12
 <400> 33364

cccacgcgtc cgcccacgcg tccgaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg 60
 ggagttctag atcgcca 77

<210> 33365
 <211> 434
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3068-024-Q1-K1-H6
 <400> 33365

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 cagccttctg atcgtcacc atggccactg ccgaggtcca gaccccgacc gtcgtggcga 180
 ccgaggaagc gccggtggtg gagaccccg cgccgcccgc cgtcgtgccc gaggaggctg 240
 ccccgccgc cgaggccaag gtggaggagc cagctgcccc ggcggagacc gagccagctg 300
 ccgcccgtga gcccgaggcg gcccccggtg cggcggtatga agagacgcca aaggaggaag 360

agacggcaaa ggagggcggag cccggagccgg agccccgcgc cgctgaagag gtgaaggagg 420
aagcggcagc gccc 434

<210> 33366
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-H7

<400> 33366

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aaaaagaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aataaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaacca aaacacaaat 180
aaacaaccaa aaaaatcaca aaaacagaaa aaccaaact actaaagaaa tcaaaaccca 240
aaaaagcatg ttcccgaatt cgaaaacaag gtagaagacc cagatgcaca ggc 293

<210> 33367
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-A1

<400> 33367

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aagggcacat agaaccggga tcttttgctg gccatggatg ttctgaatgc acttgtaacg 180
gccctggtat ctgacactct cctagaatac aattcaatac aagggctgca gctctagctt 240
gaagaaaaaa aaaaaaaaaa cagaaaaaaa taaaaaaca gataataaaa aaaaaaaaaa 300
accaggacca atcaaaaatt cacaatgacc atcaaatttc atgatgaagc tttagatcac 360
cctattttgga aaaaaaaagg gggggcctt 389

<210> 33368
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-A10

<400> 33368

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tttgctgcta aggagcccgt agtcgcgccc tccctgcctca tcgctggatt cgggtctcttt 180
cttcacgcag ttgtccggcc aatcctggat tcatggcaga ccgcggaaca agttcctcca 240
cctcttctaa atgatgtggg tgcaggtgtc accggcaaga aaaagtagtg aacttgcatt 300
gttttctcat gccaatgttg cccacattt tcttccccgt gttttttctg gcgaccagat 360
tggaaggctt ttcccaagag tcacggtctt gaactctaga tggatatccgc ggaataatca 420
ttgtacctga atcatatact gcaat 445

<210> 33369

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-A11

<400> 33369

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aggcctagta gatccagcct aacctgcacc catgtgagac atggacaatc tcatgatctg 120
tgtccttaat gaaccgcact ggccgtcctt ctgcactcat cgctacaggc aaaaccttgc 180
tttcacaaaa cttactggcc ttgctggata tatggcttac ccagatcac gttactccaa 240
ctatgctcga tctatcgcc gttegtatca cctgcgcaac ctagttgtga actgggactg 300
gccttttatg ccaacgttaa cccacattgt ct 332

<210> 33370

<211> 391

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-025-Q1-K1-A12

<400> 33370

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gcggggcgctc tccgactccc aatcccaagt ccagccgccc cgcgcgtctc ttgctcgctc 120
 caaaagccgt tttccagaga tctttttcag cgccagacgc cagccgcccgt ctctcgcttg 180
 cctgcatttc cgatcctgag gcagtcctca tctcattctc atgatctcat ccaaccggga 240
 ggctgggaac gagatcacag ctacagctac agctacctga gcaggatcct cctcagatcg 300
 gcttcaaaaa tcaaaagggg cgggggacaa caaggcangg gatgagtgc actgcaacca 360
 aggtgaagag acgtgtgggc aagtacgagc t 391

<210> 33371
 <211> 351
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-A5

<400> 33371

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 ggaaaccttg tggttcacat gaaacgaaag aatacgtgc aaaaatgtac tagcgaaaag 120
 aaagaggaaa ggggacaagt acatgtacaa tacgacgtg cttccctccc tccggcggcc 180
 atttctgcat catcgtcgtc gagattcctg gtgcggtgcg gtgcggtgcg gtgctgtgcg 240
 tcgtggcgtg cgtgcgtacg gatcgtcatg tcggcctgct gcttccgcgg ctggaggacg 300
 aggacgagcc ggagtggccg ctgcccccca gcttctgct gatgctgtgg a 351

<210> 33372
 <211> 346
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-A6

<400> 33372

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 aaggaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa attaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaataaaaaa aaaaaaaaaa aaaaaaaaaa aaaataaaaa 180
 agggggccat ttttaaaatt tcaaattttt aaaacccttg aaattaactt atttaatttt 240
 tttttgggaa attaaaattt aatcaatttg cctatttttt aaaaagttat gatttgaaaa 300

accttgatt tacccaatta atttgattgg aaaaaaatac cttttt

346

<210> 33373
<211> 141
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-A8

<400> 33373

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ggaataatac tgtaactgtg tttcctgccg ggcaatgcac tgtgatatga tgcccaacga 120
ataaatgtcg cttttatttt t 141

<210> 33374
<211> 408
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-025-Q1-K1-B1

<400> 33374

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cttctgattc aaatacttat tacactaatg gcacctcgca atcatgttcc tttgatcatt 120
ttatgatatg atttatgatc tgaaccacat taaacacctt tctatttaac gcagcctgat 180
ggccaagtgc ctggagataa gaccgcggga catcacgatg atgccttcag caccttcttc 240
agccagactg gtgctgggaa gcacgttccc cgtgcaatct tcgttgatct agaaccact 300
gtgatcgatg aggtgcgcac tggcacgtac cgncagctct tccaccctga gcagctcatc 360
agtggcaagg aggatgccgc taacaatttc gcccgaggcc actacaca 408

<210> 33375
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-B3

<400> 33375

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 ggatcattct ttagctgcgc tagctctagc ctctagccct agctagtagc tagccactcg 120
 gtcgtgtagt catcagcctt ctgatcgta cccatggcca ctgccgaggt ccagacccccg 180
 accgtcgtgg cgaccgagga agcgccggtg gtggagaccc cggctccggc cgtcgtcgtg 240
 cccgaggagg ctgccccgc cgccgaggcc aagggtggagg agccagctgc cccggcggag 300
 accgagccag ctgccgccgc tgagcccgag gcggcccccg tggcggctga cgaagagacg 360
 ccaaaggagg aagag 375

<210> 33376
 <211> 354
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-B5

<400> 33376
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 ggtggtgatt cagatactta gttcactaaa tggctcctgc caatcatgtt cctttgatca 120
 ttgtatgata tgatttatga tctgaaccac attaaacacc tttctatcta acgcaacctg 180
 atggccaagt gcctggagat atgaccgcgg gtcacacga tgatgccttc agcaccttct 240
 tcagccagac tgggtgctggg aagcacgttc cccgtgcaat cttcgatgat ctataacca 300
 ctgtgatcga tgaggtgctc actggcacgt accggcagct cttgcaccct gagg 354

<210> 33377
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-E10

<400> 33377
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 cccggccgcc agatccgccg tcgaggcgtc cccgtccgcc gtcgtcgcgg ccggccagga 120
 agtccagggg gatgagtgcg ctgtgtgcaa ggacggggtc gcggtcggcc agcgcgtcaa 180
 gcggctgccg tgctcgcacc gctaccacga cggctgcac gtgccctggc tccaggtgcg 240

caactcgtgc ccgctctgcc gcttcgagct gcccaccgac gacccggagt acgagtcctg 300
gaaagccggc cggaccgacg ccgctgaac cggccaacca ggcagtggcc gcatgctctt 360
atggtatggt tttattgata gtgttgatg tatgggttg gtttgaatcg ggtgctttgg 420
ttataagggt gc 432

<210> 33378

<211> 158

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-E2

<400> 33378

tacccttttc actctttcac actctccata tctacagcgt cagcattcgc aacctttctc 60
aacccttccc tactccaaat ccaccttata tcccacactc cctactaacc cttcattacc 120
ctccaactcc taactaccaa acaatttata ctttaaat 158

<210> 33379

<211> 465

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-E5

<400> 33379

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ctgcggggccc tgggtggtgtt ggccgtgagc ctggccgttg agatccaggc cgacgccggg 120
tacggttacg gcggcgggta cccccgacg ccgacgccgg ccaccccgac cccgaagccc 180
gagaagcccc ccaccaaggg gccgaagccg gacaagccgc ccaaggagca caagccgccc 240
aaggagcacg ggcccaagcc ggagaagccg cccaaggagc acaagccgac gccgtccacg 300
tacaccccg gcccacaaacc cagccgctcg acgtacactg acaccccgac gccctccaag 360
ccgacgccac ccacatacac taccgcccct acgccccaca aaccacacc aaaaccact 420
atcactacta cgacgtacac cccgaccccc aagcctacga cacct 465

<210> 33380

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-E6

<400> 33380

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tcgcaagtgc atgaccaacc gactgctggc ccgcaaaca tttgtgcttg aggttatcca 180

ccccggccgc gccaaagtct ccaaggcgga gttgaaggag aggcttgcca agatgtacga 240

cgtgaaggac cccaacacca tcttcgtctt caagttccgc acccacttcg gtggaagcaa 300

gtccactggc ttcggcctca tctacgat 328

<210> 33381

<211> 480

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-E8

<400> 33381

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acccaatctc ccctacacca gaaaaattcc cagttctttg gtccgcgtca gagaggcggc 120

ggcgatgtct gggcgcgga agggcgga gggctctggc aaggcgggcg cgaagcgcca 180

ccggaagggtg ctccgcgaca acatccaggg catcaccaag ccggcgatcc ggaggctggc 240

taggaggggt ggcgtgaagc gcatctcggg gctcatctac gaggagacc gcggcgtgct 300

caagatcttt ctcgagaacg tcatccgga cgcgctcacc tacaccgagc acgcgcgccg 360

caagaccgtg accgccatgg acgtcgtcta cgcgctcaag cgccaggga gcacctcta 420

cggcttcgga ggctaggcta ggcgcctgtt catagtcggg gactggttag gggacatgct 480

<210> 33382

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-E9

<400> 33382

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cacgatcgtg gtgtgtgtaa ggaactaagg acgacgggtgc ctggtttagg agtttagcta 120
tagacgaaag cacgtacggc cgcgtgcctg gtctagctac gcggcctggg tgatcttgag 180
cagttaagcg tgtacgaaac gacagctgtg tacgtgtgta ctgtctgatg gagtgtgaga 240
agtactgtgt gtatttggtg tggatccgat cggcctgatg tatgaaaagg atgtttacgt 300
actatatata gatggaaaat cgtatttgcc t 331

<210> 33383
<211> 212
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-F1

<400> 33383
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cctagggtttt ttttgtggaa cctgatttat cgttgtatga tcatgacaaa caattggtag 120
taaggaaatc aaaaagggga aatccgtaca tgtttgcctt gtttcatctg tatcttgcac 180
gttaaattatt taaatataaa aagcattgag tc 212

<210> 33384
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-F10

<400> 33384
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ttacagtgtt tgtataacgg tattgagact gaatggagtg tactttgagg tagtttctga 120
aaaacaaaga aatgaatgca ataagagaaa agacagagta aaaaaacgga caacgagtaa 180
agcggatgac gagacttgac atgataacac aaccgttggg ttactgcact ggctacagtt 240
gcgcaattag tggccgatgt ggcgggttcta gctcgccacc gacgacgcgc agtactaatg 300
ctggatagcc gggacgactg actgtgcgtg aaccggtgaa acaggcagtg actgcatgct 360
ctcatgggtat ggcactatcg atagtgtagt atgtat 396

<210> 33385
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-F11

<400> 33385

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gacactcgcc ttcgccaag actgccttat gattatcgct gatatggaca tgtggtacat 180
gcttctctac ccttagaagt ctttcactcc gaatctcggg acgagattct ttttaagggg 240
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gaaatatcag tggataacac ggattttaaa ttttaatcat cctcacttat tgcgatttta 360
atatcgcac tggtccgttt atcgcgagtg tgacatcatt tttacttcta tttattcggg 420
ctcttcccaa att 433

<210> 33386
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-F3

<400> 33386

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aagggaatc agggatatatt tcaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaattaaaa aaaaaaaaaa ataaaataaa aaattaattt aaaaaaaaaa taaaaaaagg 240
aatcgatct agattataca aaaacatgac tgggaaaaaa ctactgttac gaaatataat 300
agtgttgcca aaaatcaaa 319

<210> 33387
<211> 252
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-024-Q1-K1-F5

<400> 33387

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ttcgtgagaa ctagatttat cgctcggtga tcattatgac acattgggtg gtacagcaat 120
caaacatgtg atattcctac atgcttgctt tgcataatgc gtatatctac tgttaaatat 180
ttatatataa ccagtattac gtcaaactat acaactacac gagcagtcct tctagaatat 240
ccaagcttta ca 252

<210> 33388
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-F9

<400> 33388

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cgaggcagac gggatgctcg cggatcggt gctgccgggc ttttcgctcg cggacattcc 120
cgcacctgc atcagcgtgg tcgtggtggc cgatggcgat cgggcccgcg ccgatgcggt 180
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gctgatgctc gatcacggcg acaactgcat gtcggggcgc ccgtgcgaca cgatggacct 360
gctcgaagcc gcgctcgcg acgggctcga cggcatcgct agcgggccgc tgtgcgaccc 420
gcaagccgct gcggcgctga t 441

<210> 33389
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-G12

<400> 33389

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cggagagtgg actcgcccg gggaccatct ggtgcaccgt cgtcgccacc tggtagcagc 120

tgccccgtgt ggagcgccac gtggcgctcc ctggccttat cgggacgctc aagatgtgca 180
gcacctactg ggccaccttc gtcaccatcc atggcctata catcatcgtc gaacatctcg 240
tgcagagcca gcgcaagaag cgcgactttg tcaacggggc cgtcagcgcg ttcaatgccg 300
gagcctctgt ctgcggctac agacgaaaga gttttc 336

<210> 33390
<211> 463
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-G2

<400> 33390

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tgacacagca atgaggttgc ttagccgcca gttgggtatc aagaactttg ttccactaat 120
gcccttgttt cttgatctgc acatgggcag tcatacatat ttgctggggc ttgctgccgc 180
tcctgttata tcagttgcag tagagaaagg ttggaatgag tccgcaagtc ctaatgtgag 240
gggccctcct gcgcttgttt tcagcttctc acggatggaa gacagactca aggctgccta 300
caaagccaca actgagggca agttcccaga agcactgagg cagttcctta gcattctaca 360
taccattcca gttatcgtgg tggactcacg gagagaagtt gatgaggtga aggagttaat 420
cgagatagtg agggagtatg tccttgggtct gaggatggaa etc 463

<210> 33391
<211> 419
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-024-Q1-K1-G3

<400> 33391

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tcccagacag gagagcgaga gacagaaggc tgtgcgaagg gaaagaagag acggtggggag 120
aggagggcga catggagagg cgggcaccgg tgaggaagtc tcacacgtcg acggcggacc 180
tgctgatctg gccggagggg gcgccgcagg agtcgcccgc cggggccacg ccgcatcca 240

accgccggcc gcatcagccg tccgaggcgc tcaggaaggt ggtgttcggc gggcaggtga 300
cggaggaaga aggccgaaaa gcttaaccag gaggaaccat gctctggttc caagtggaaa 360
ggagatgaca gggaagcggc atatntgctg ctgggggcga ggctgaagaa gatgaatct 419

<210> 33392
<211> 477
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-D8

<400> 33392

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atgcatcgtg ttagcaaggg agcaccagag cagatccttc atcttgccca caacaagtcg 120
gatattgaaa gaagggtcag agctgtgatc gacaaatttg ctgagcgtgg tctgcgagca 180
cttgggtgtgg cttaccagga agtgccagaa tggtaggaaa gagagtcctg gaggaccatg 240
gcagttcatt gggctcttgc ctctttttga cccccgcgc catgatagtg cagaaactat 300
cagaagggca ctcaatcttg gtgtcaatgt caagatgatt acaggtgatc aacttgctat 360
tggaaggaa actgcacgtc gtttggaat ggtactaat atgtaccctt cttctgcttt 420
actcggacag aataaggatg agtcaattgc ttccttgcca attgatgatt tgattga 477

<210> 33393
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-D6

<400> 33393

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tgtgcaggtg ccaatggctt ggcttcgccg agggatttcc tttccccgac agcatggttt 120
gagcaggagc accaccctgg atacacaata gtgcacaagt atgggtggcga gctgttcagc 180
gccacgcagg atttctctcc attcaacgtg gtcgcgtggc atgggaatta tgtcccttac 240
aaggtgtgtt gtatgccatt gtacacctgt ctgccattga gatgtgtgtc gctgttcaact 300
ccacccctt ctctttcagt atgatctgag taagttctgt ccattcaaca ccgctccttt 360

ggatcatggc gacccgtcag tgaacacagt tctaactgcg ccaactgata agcctggcgt 420
cgcggttgctt gatTTTgtaa tattccac 449

<210> 33394
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-C5

<400> 33394

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tcaagctcgt gtcgtggtac gacaacgagt ggggctacag caaccgcgtc gtcgacctga 120
tccgccacat gttcaagacc cagtaggcta gtagagagat agatttctgc ctccctatcg 180
tggttcgtcc ccaatggcct ttggtcgcag accatctttg ctgcttgtct atgctgagaa 240
taaattgtgaa cgggtgccct ggacgctgga tccatgctgg ttttggacaa att 293

<210> 33395
<211> 298
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-021-Q1-K1-C5

<400> 33395

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gccatgggca agattaagat cggaatcaac ggcttcggaa ggatcggcag gtcgtgggcc 120
agggtcgccc tccagagcga ggatgtcgag ctggtggccg tcaacgaccc cttcatcacc 180
acggactaca tgacctacat gttcaagtac gacaccgtcc acggnactg gaagcacagc 240
gacatcacac tcaaggactc caagaccctt ctttccggtg acaagccggt caccgtct 298

<210> 33396
<211> 308
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-B11

<400> 33396

cccacgcgtc cgccccacgcg tccggtcgac ctgatccgcc acatgttcaa gacccagtag 60
 gcgtagtaga gagatagatt tctgcctccc tctcgtgggt cgtccccaat ggcctttggt 120
 cgcagaccat ctttgctgct tgtctatgct gagaataaat gtgaacggtg cccctggacg 180
 ctggatccat gctggttttg gacacgctgt ctttttgtgt ttaacttatc tgctgccgtc 240
 ctgtaacgaa ttcgcaagtt ttagttcttt tgtgctttgt taaagaataa acaatgaggt 300
 ttcagttt 308

<210> 33397
 <211> 412
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-D5

<400> 33397

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 gctagtagag agatagattt ctgcctccct atcgtgggtc gtccccaatg gcctttgggtc 120
 gcagaccatc tttgctgctt gtctatgctg agaataaatg tgaacggtgc ccctggacgc 180
 tggatccatg ctggtttttg acacgctgcc tttttgtgtt taacttatct gctgccgtac 240
 tgttacgaat tcgcaagttt tagttctttt gggctttgct aaagaataaa caatgaggtt 300
 tcagtttaca cacaagtttt gggatggatt acaagctcag agactatgac ctcaatgaca 360
 atgctttttc acctaaactt ggacatgcaa aaaaaaaaag gggcgccctt tt 412

<210> 33398
 <211> 378
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-G2

<400> 33398

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 gggaagggtg ttctgaatt gaatggcaag ctactggca tgccttccg ggttcccacc 120
 gtggatgtgt cagctgtaga cctactgtc agaatcgaga agggggcctc ctacgaggaa 180
 atcaagaaag ctattaaggc cgcttctgag ggccactca aggtatcat tggctacgtg 240

gagtcaccg gtgtcttcac tgacaagga

389

<210> 33401

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-E3

<400> 33401

cggacgcgtg ggcgagtctc gtccaccgt cgtcctccta gctcctctac tcgccagtcg 60

ccatgggcaa gattaagatc ggaatcaacg gcttcggaag gatcggcagg ctcggtggcca 120

gggtcgccct ccagagcgag gatgtcgagc tcgtcgccgt caacgacccc ttcacacca 180

cggactacat gacctacatg ttcaagtacg acaccgtcca cggccactgg aagcacagcg 240

acatcacact caaggactcc aagacccttc tcttcggtga caagccggtc accgtctttg 300

gcatcaggaa ccctgaggaa atcccgtggg gtgaggctgg cgctgagtat gtcgtggagt 360

ccaccggcgt cttcactgac aaggacaagg ctgctgcaca tctcaagggt ggtg 414

<210> 33402

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-F4

<400> 33402

cgacagatag ccgtaacttc tgtgctgtgc cagccgcatc cctgagacaa gatggtggaa 60

ggtcggagtg aacggattcg gccgcatcgg gcgcctggtc accagggctg cttttaattc 120

tggcaaagtg gacatcgtcg ccatcaatga ccccttcatt gaccttcact acatggtcta 180

catgttccag tatgattcca cccacggcaa gttcaacggc acagtcaagg catagaacgg 240

gaagctcgtc atcaatggaa aggccatcac catcttccag gagcgagatc ctgccaacat 300

taagtggggg gatgctgggt ctgagtatgt ggtggagtcc actgggggct tctactaccat 360

ggagaaaggc tgggctcact tgaagggtgg cgccaagagg gtcacatct ctgcaccttc 420

tgccgatgcc 430

<210> 33403

<211> 230
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-029-Q1-K1-F6

 <400> 33403

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 tcgtcggcca ccgccgtcgc tccgttccag gggctcaagt ccaccgccag cctccccgtc 120
 gcccgccgct cctccagaag cctcggcaac gtcagcaacg gcggaaggat ccggtgcatg 180
 caggtgtggc cggcctacgg caacaagaag ttcgagacgc tgtcgtacct 230

<210> 33404
 <211> 333
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-046-Q1-K1-B2

 <400> 33404

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 catggcctgc ctgccaaca tggctgcat ggccccgtcc gacgaggccg agctctgcca 120
 catggtcgcc accgccgcg caatcgacga ccgccgtcc tgcttccgct acccgagagg 180
 caacggcggt ggcgctccgt tgccgcccac ctacaaaggc actcccctcg aggtcggcaa 240
 aggcaggatc ctgctggagg gcgacaccgg gngctgctg gngtacgggt cgggagtgca 300
 gnactggctg accgtcgcgt acctggtgca gcg 333

<210> 33405
 <211> 382
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-056-Q1-K1-C6

 <400> 33405

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 tggctccac cgtgatgatn gcctctcng ccaccgccgt cgctccgttc caggggctca 120

tgctatt

367

<210> 33408
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-E5

<400> 33408

gggaagcaaa gttaaataatg agcttgacaa gaaaactgga ctgattaagg ttgatcgagt 60
cctataactca tcagttgtat accctcaciaa ttatggtttc gttccaagga ctctttgtga 120
agacaatgac ccattggatg tgttggctct gatgcaggag cctgttattc ctgggttcgtt 180
cctgcgagca agagcaatcg gccttatgcc catgattgac cagggtgaaa aggatgacaa 240
gataatagca gtctgtgctg atgatcctga atatcgtcac tacaacgaca tcagtgaagt 300
gtcttctcat cgcttgcaag agatcaagcg gttctttgaa gattattaga agaataaga 360
tt 362

<210> 33409
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-C11

<400> 33409

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gcgagatggg ccgcaagttc ttctgttggtg gcaactggaa atgcaatgga accgcagatc 120
aggttgagaa gattgtcaaa accctgaatg aaggaaatgt tccctcttca gatgttggtg 180
aggtcgttgt cagtcctctt tatgtgttcc tcccggtggt caagagccag ctgcgccaag 240
agttccaagt tgctgctcag aactgctggg tgaagaaggg aggtgcattc actggtgaaa 300
ttagtgctga aatgctcgtc aaccttggtg ttccctgtgt cattcttggg cactctgaaa 360
ggagagctct gctgggagaa tcaaatg 387

<210> 33410
<211> 461
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-024-Q1-K1-A2

<400> 33410

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atgaggcagg atctgaggac aactttgtgc aaggggagaa tgggacttct gtagcaaagt 120
cttcgattga tcctgctcaa tctttacatg gcagcaatct ttcaccacca acagtactac 180
agtttgggaa gacaaggaag ctatctgaga gatctgacct tagaaatcgg caactcctgc 240
aaaaacgaca gttcttccat tctcacaagg cgcaacccat gcaactggag caagtgttct 300
cggaccgtga tagtgaagat gaagttgatg atgatattgc tgacttcgag gatagaagaa 360
tgcttgatga ttntgttgat gttacgaaag atgaaaaact tattatgcat atgtggaatt 420
catttgttcg aaaacaaaga gtggttagctg atgggtcatat a 461

<210> 33411

<211> 192

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-A8

<400> 33411

tccaagccgg gagtcaccgg gaggggcatc cccaacagca tctccatttg acccgccgt 60
cctcgccatc caatgggggt ttgccttatt gcgtgcacgc tagctagctg cttggaaata 120
aaaataatta aaataaaagg tctcgtctgt actattgtat tgtaccatgg atcatatcgt 180
acatgttggtg tc 192

<210> 33412

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-B10

<400> 33412

gggaattgct gagaggcca ctctattatg tcctgggtgct gctgttcagc gttttagtct 60
tctggcgtga gtcccccatc gggatcgtct ccttgctgat gatgagcggg ggcatggta 120

ctccccgtccc cagtatctaa tagcacgatg tcgttttgta gaacgccgtt gcatttgatt 180
 gtttgtgccataataacttgc aggttttgcgacattgtcg ggaggaggta tggctcagcg 240
 aagctgccat tcaatcggaagaagagctgg gccgggagca tctcgatgtt catttctggt 300
 ttctgctgt ccgcgatgat gatgctctac ttctcaagcc tgggttacat tgatgttatc 360
 tgggaagagg cacttggttaa gctggcgctt gttgcactag cagcaacagt agtggagtgc 420
 gtcctgtga c 431

<210> 33413
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-B3.

<400> 33413

cccacgcgtc cggccaacca gaagagcttg cagttactga gagtgtgtgt gagagagagg 60
 atgggggggca gcggcagggc tgctctgctg ctggccctgg tgggtggtggc cgtgagcctg 120
 gccgtggaga tccaggccga cgccgggtac ggttacggcg gcgggtacac cccgacgccg 180
 acgccggcca ccccgacccc gaagcccgag aagccccca ccaaggggcc gaagccggac 240
 aagccagcca aggagcacia gccgccaag gagcacgggc ccaagccgga gaagccgtcc 300
 aaggagcaca agccgacgcc gaccacgtac actccgagcc ccatactcac gccggcgacg 360
 tacactccca cccggaccct ctcatgctg cccaaccac atacactt 408

<210> 33414
 <211> 289
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-B5

<400> 33414

acagaatcta gtaagattg agaaaaacat ttttttgag aaaaaaaaaa aaaaaaaaaa 60
 aaaagaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 ttacatacaa aaaaataaaa aataatataa atataatata atgtaaacta aattgaatga 180
 actggacaac gttttacaat ggcaaaaaat gtaaaaaccc tgaacgctaa taaacttaaa 240

tgacattgca ccatatacca ctttctacat ctgacataat atccaaaag 289

<210> 33415
<211> 484
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-024-Q1-K1-B6

<400> 33415

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accccgacat ccccgacccg atggcgccca aggcggagaa gaagccagcg gagaagaagc 120
cggcgggccga ggagaaggcg gagaagacga ccgcagggaa gaagcccaag gccgagaagc 180
ggctgcccgc gtccaagtcc tccggcaagg agggcgggca gaagaagggg aagaagaagg 240
ccaagaagag cgtggagacc tacaagatct acatcttcaa ggtgctgaag caggtgcacc 300
ccgacatcgg catatcctcc aaggccatgt ccatcatgaa ctcccttcac aacgacatct 360
ttgagaagct ggccggcgag gccgncaagc tggcgcggtg caacaagaag cccaccatca 420
cgtcccgcga gatccagacc tncgtgcgcc tagtctncc cggagagctc gccaaagcacg 480
ccgt 484

<210> 33416
<211> 224
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-B7

<400> 33416

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gaactgagtg tattgtacct gtatgataga ggacaacttt tctccttggt taactaatca 120
aataggcata aacatttttc cttgggttcg tatgcctttt ttttctgggt ccttggtctc 180
tggggccctaa atgaaatttt taccaaggta ctaaagtaat ggtc 224

<210> 33417
<211> 469
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-024-Q1-K1-B8

<400> 33417

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aggagggcat agccatggtg cgggagagcc ttctcgccgt gcgcgaggcg ctagcggtcg 120
gcgctgctgc ggccacgcgg cacgggcct cgcgcgcgc gctcggtccc gtggcgatct 180
tgctcctcgc ggtggccgcg acggcgccg tggcgcccat cgcggcggtc gggcgcgcg 240
aggcgccaa gaagccgcgc cggcagagca gcaacaaca cgcatactac tacggccagg 300
gctaccgcc gctcccgcg ggcgcgtacg gctaccctgc gcaggccgcg tacggctacc 360
cggcgaggcg cgtggaggcg agggcgccg gtagcgggct cgggtcgga gccgcggggc 420
tcgccgtcgc cgcggtcggc gggctggcgc ncggcgccat catcggtc 469

<210> 33418

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-C10

<400> 33418

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gcctgcgaga tcgcgcgct gccggatgac ctctgtcgc cgcgcgtcgc ccggacgggg 180
ccgctggacg cctgccgcgc cgcgcgggtc tcgccggcct ttcgcgcgc gcccgacgcc 240
gacgccgtct ggtccagctt cctgccgccc gacctgccc cgctcgccga tggggagctc 300
cccgcgacg cgacggccac caagaagcag ctcttcatgc gcctctccga ccccgccaga 360
ccgctcctcc tcgccgacgg cctcagcagc atgtggctgg acagggtcac cgtcgccaag 420
tgctacatgc tgt 433

<210> 33419

<211> 294

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-C11

<400> 33419

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 gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaggaa 120
 aaaaaaaata aaagatcagg ggggtgcttt tttgagctcc taacttaaga gctcggtaat 180
 acggacgcca aaggacaatt aacggggccgc caaattaaaaa tttggggccc gggaaaacaa 240
 aggctccgac ggggttaaacc cctgggttgca acatccttat ctgccagggg tcaa 294

<210> 33420
 <211> 474
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-C3

<400> 33420

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 gcaggctcag gaccgacaga acagaccatc agagagccct gttacaccat ctaggcagct 120
 cttggctcct aatgtacatt tctatgctgg agagtgggat gaactcccaa caattctctc 180
 agttgtgcag ccacctgcag caccaacaaa cctcagcttc tctgaggatg attttatgga 240
 tggctgcagt agccatgatg gaagcagtgt agttggatc gactactgcc ccaggagatc 300
 taggaagctt tctggtagcc gtgcatggga gagagctagt gagaccgacc aggcagatag 360
 tggctatgat gtgatcttga tttctgatgt cccctacgca gctaactctc tgaagaagct 420
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<210> 33421
 <211> 398
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-C4

<400> 33421

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 gttctccggg gttcgggttc gtgggtgagc ggatcgagat ggcggcgtcg gatgttgagt 120

accgctgctt cgtcggcggc ctcgcctggg ccacggacga ccactccctc cacaacgcct 180
tcagcaccta cggcgaggtc ctcgagtcca agatcatcct cgatcgggag acgcagaggt 240
cccgcggctt cggttcgctc accttctcca cggaggaggc gatgcggaac gccatcgagg 300
gcatgaacgg caaggagctg gacggccgca acatcacctg caacgaggcc cagtcccgcg 360
gcggccgtgg aggcggcggc ggcggggggt acggtggt 398

<210> 33422
<211> 487
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-C7

<400> 33422

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ctgagctagg gtctggtggc ggagatgtcg acgccggcga ggaagcgctt gatgcgggac 120
ttcaagcgcc ttcagcagga cccgcccggc ggcatcagcg gcgcgccgta cgacaacaat 180
atcatgctct ggaacgccgt catattcggg ccggatgaca cgccgtggga tggaggcacg 240
ttcaagctga ctctgcaatt tacagaagat taccccaaca aacctccaac tgttcggttt 300
gtttcgagga tgtttcatcc aaacatctat gcggatggaa gcatctgttt ggacatccta 360
caaaaccagt ggagccctat atatgatgtt gcggcaatat tgacctctat tcagtccctg 420
ctgtgtgacc caaaccctaa ttctcctgct aactctgaag cagccagaat gttcagcgag 480
aacaagc 487

<210> 33423
<211> 312
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-D11

<400> 33423

tacgcacctt ttgatccaca cgagaattct gttcgctttg agtcatctt acgacacctg 60
cggatggtt taactgatgt gccgacacat ccaaactctc cacctaacaa tgtcttccga 120
cccgatctgc ccagctaaga ctgtccttcg acccaaaagg acgggcgatg ccccgctttc 180

gacccacgga ataagtcaaa taacgtttaa agtactggta tttcacttgc accccgatgc 240
taccacttat cctacacctg tcaagtcatt tcacaaagtc tgactatagt caagcttaac 300
agggtcttct tt 312

<210> 33424
<211> 482
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-D5

<400> 33424

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gttccagagc atgctgagcc accgcggcga cagcgggtgc cagggcgcct tctacaccta 180
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gacgcgcagg cgggagctcg ccgccttctt cggccagacg tcccacgaaa ccaccggtgg 300
atgggcgact gctccgatg gaccgtttgc ctggggatac tgccgggtga aggaacagaa 360
acagacggac ccaccctact atggacgagg acccatacag ctaactcata agtacaacta 420
caggctcgcc gggcaagcgc tgaacctgaa cctggtgggc gacccgacc tgggtggcgag 480
ag 482

<210> 33425
<211> 480
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-D6

<400> 33425

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cgcgggggct gccggcgccg gcgcgcagca gggcgtgtgg agcatcatca cccggcccat 120
gttccagagc atgctgagcc accgcggcga cagcgggtgc cagggcgcct tctacaccta 180
cgacgccttc atcgaggccg ccagcaagtt ccccggttc ggcaccaccg gcgacgagca 240
gacgcgcagg cgggagctcg ccgccttctt cggccagacg tcccacgaaa ccaccggtgg 300

atgggcgact gctccggatg gaccgtttgc ctggggatac tgccgggtga aggaacagaa 360
acagacggac ccaccctact atggacgagg acccatacag ctaactcata agtacaacta 420
caggctcgcc gggcaagcgc tgaacctgaa cctggtgggc gacccggacc tgggtggcgag 480

<210> 33426
<211> 355
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-024-Q1-K1-A12
<400> 33426

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gaagttcctc ggtttgtctg cacaacctct tcggcgggcc gagcgttgtg cgcgtgtccc 180
agtgcgactg gccccactgt ttcgccgtga cgcccgctcc cgcaggcccg tactgtgccg 240
acatgcttct cgcgatgcat cactagcccc aggtgatgta cgaagtgctg aagcagatga 300
ccgactgcgc cacggtcgtc gtccctcgccc gggccttcag cgcaatgccg tacct 355

<210> 33427
<211> 349
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-023-Q1-K1-G4
<400> 33427

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gctgcgtcgc atcttactcc gttcgatgtg cgggtgctctt tcggtcgatg gaccctacct 180
tcggctgaac cgatttcagg ggtggcgggc cgtaagcat aaaagataac tcttttcgag 240
gcccctcgtc ggcgttttcg gacttcctaa cgtcgccgta tgccgtcacg tacttgctcg 300
ggaaatctta acccgatttc ctttcggttg acgctcgtga tcgcgctat 349

<210> 33428
<211> 428

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-023-Q1-K1-G5

 <400> 33428

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 aggagatcct caagatcgtc aaggagaact tcgacttcag gcccgggatg atcaccatca 180
 acctcgacct caagaagggc ggcaacaggt tcatcaagac cgccgcatac ggccactttg 240
 gccgtgacga cgccgacttc acctgggagg tggtaagcc cctaaagaag gcatccgctt 300
 aagaatgtat tgggaagttc actggacatg aggttcatct tcgtctggct ctgctgatac 360
 ctgcaaggat tgctgctgct gctgcccctg gatgtgtgtt tgatcagtga ctgtctgctc 420
 tgctccat 428

<210> 33429
 <211> 430
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-023-Q1-K1-G7

 <400> 33429

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 cggcctcatg ggcgccggcc acgactacta cgagcgcggc aacctggaca tcttcagcgg 120
 ccggggcccc tgcattgagcc aggcgccttg cgccatgaac ctcacctccg acggcaccgg 180
 cgcgaccac ggctggtact gcaactacct cgaggccacg gtcacggggc cccacctcgg 240
 gtgcgcgcag cagctcttca ccgtcgagca gtggctcgcc accgacgcgt cgccctaccg 300
 cctgtacgcg gtcgtcgaca agtgcaagac gaagcggcag gagccgcgac gtcgcccggc 360
 cggcgaggcc gaggccaccg tgaccgcgct ctaggtacga ccagtagtaa atcatcgaca 420
 gaggctagct 430

<210> 33430
 <211> 268
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-G8

<400> 33430

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tccttttagct aacgattctg tttgttaatt tcttcgggtt tttttggagt acagtgatca 180
tgaacctgtg ctctaattgc cacaagggga ttattactca tcctgatcag gccaatctgg 240
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<210> 33431

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-G9

<400> 33431

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gagggtgcgc gtggagcttg gcatcccccac ggcgatctac cgccatggcg gggctgcctc 180
agccgctgag ctggtcacgg cgctgtctct cccctccact aagctgccgg tccttcgccg 240
cctgctgcgg ctctctgccg cgtcggggct gttcacgcgc gacaagcaga gcacggagga 300
ggagcggtag cgcacagcc cegtgtccta cctcctgggt gacggcatcc ctcacgagga 360
ccacatgaac cacaccgctc tgggtgtcac ctgcacctcg acgcgctaca tcgaggcggt 420
gatagggctg gcgga 435

<210> 33432

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-H1

<400> 33432

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ttctggggct ggaaacaaaa atgccttcaa ggcacttatt gctgcagaat acagtggggt 180
 caaggttgag ttgaccaagg attttgagat ggggtgtctcc aacaagaccc ctgagtttct 240
 aaagatgaac ccccttgga aggttctgt tctggagact cctgatggcc ctgtttttga 300
 gagtaatgct attgcgcgct atgttgctcg cttgaaggat gacaaccctc ttttcgggctc 360
 ttcccgtatt gaacaagccc acgttgagca gtggatggac tttgctgcaa cagaagttga 420
 tcctagtgtt ggatg 435

<210> 33433
 <211> 55
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-H10

<400> 33433

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<210> 33434
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-H11

<400> 33434

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 caagcgccga cacactcaac cgtctccgtg gagaagtcag cgagatacac accgtcatgg 180
 tcgacaacat agagaaaatt cttgacagag gcgatcgcat ctcgctcctt gtcgacaaga 240
 catccaccat gcaagacagc gcctttcact tccgcaagca atccaagagg ctccgtagag 300
 ctctttggat gaagaatgcc aagcttctag ttgtgttgac agttgtcata gtagtgctgc 360
 tctacttgat catttctgct ttctgtggag gcctttcctt gtcacatgc agatcatgag 420
 ttacacac 428

<210> 33435
 <211> 436

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-023-Q1-K1-H12

 <400> 33435

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 gcttgcgccc tgaacgatga gttctggaga gtgctccatc agcaaattga gttcttctcc 120
 agcaacccaa gcgccgacac actcaaccgt ctccgtggag aagtcagcga gatacacacc 180
 gtcattggtcg acaacataga gaaaattctt gacagacgcg atcgcatctc gtccttgac 240
 gacaagacat ccaccatgca agacagcgcc ttctacttcc gcaagcaatc caagaggctc 300
 cgtagagctc tttggatgaa gaatgccaaag cttctagttg tgttgacagt tgtcatagta 360
 gtgctgctct acttgatcat ttctgcttct tgtggaggcc ttctctgtc atcatgcaga 420
 tcatgagtaa cacacc 436

<210> 33436
 <211> 367
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-023-Q1-K1-H2

 <400> 33436

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 aagagggccg tttcatccga gttaaggaag ccatggagca caaggaggct gggtgccaaag 120
 cccccgaggg acccatcctc tgcattcaata actgtggctt cttcggcagc gcggcgacca 180
 tgaacatgtg ctctaagtgc cacaaggaga tgataacgaa gcaagatcag gccaaagtgg 240
 ctgcctcctc tategacagc atcgtgaacg gcagcgacgc cgtcatggaa ccggttggtg 300
 ctggcaacaa cacggtagta gcttggtgcc aagtcgagtt gcaaacaatg aacgtgcagc 360
 agcccgcc 367

<210> 33437
 <211> 271
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-023-Q1-K1-H4

<400> 33437
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tgcatcggac tgaggcacac tgcatcgcag ttaaggacgc catagtgcac tacgagctac 120
cgagccatcc cttctatgga cccatactat gtgtgaataa ctgtcccttc ttcagcagcg 180
cggccacat caacatgtgc tctaagtgcc acaaggagat gattacgaac cacgatcagg 240
ccaagctggc tgcctcctct atcgacagca t 271

<210> 33438
<211> 215
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-H6

<400> 33438
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cagagggccg ctgcatccga gttaaggaag ccatggagca caaggaggct gggtgccagg 120
ccccgaggg acccatccta tgcataaata actgtggctt cttcggcagc gcggcgacca 180
tgaacatgtg ctctaagtgc cacaaggaga tgatt 215

<210> 33439
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-H7

<400> 33439
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gccatctatg acatctgccg cgttccctt gacattgagc gccaaccta caccaacctc 120
aacaggcttg tgtcccaggc catctcatcc ctgactgcct ccctgagggt cgatgggtgct 180
cttaacgtgg atgtgaatga gttccagacc aacttgggtgc cctacccgag gatccacttc 240
atgctttcct cctatgctcc agtcattctt gctgagaagg cctaccacga gcagctgtct 300
gtggccgaga tcaccaacag cgccttcgag ccaccccca tgatggccaa gtgcgatccc 360
cgccatggta agtacatggc ctgctgcctc atgtaccgtg gtgatgtggt cccaaggat 420

gtgaatgctg ctgt

434

<210> 33440
<211> 193
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-H8

<400> 33440

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tggacaaact gcattgcagc tcggcacggc atagtgtata cgatccgacc gatcgatccc 120
ttttattgac aaacaaaacc tgtgcacaag ggaccttcac tgaatgcctt gcgcaccatc 180
aacatgtcta tct 193

<210> 33441
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-H9

<400> 33441

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gggcccgtgaa cgatgagttc tgcagagtgc tccatcagca aatggagttc ttctccagca 120
acccaagcgc cgacacactc aaccgtctcc gtggagaact cagcgagata cacaccgtca 180
tggtcgacaa catatagaaa attcttgaca caggctatcg catctcgctc cttgtcgaca 240
agacattcac catgcaagac agcgcctttc acttccgcaa gcaatccaag aggctccgta 300
gagctctttg gatgaagaat gccaaagctc tagttgtgtt gacagttgtc ataatagtgc 360
tgctctactt gatcatttct gctttctgag gaggcctttt cttgtcatca tgcatatcat 420
gagtcacaca 430

<210> 33442
<211> 529
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<400> 33444

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa agaaaaaaga aaaaaaaaaa aagggggtag ctttaataata attcagagtt 180

tacttaattt aaaatggaaa tggaataaaa ttttttttaa ggacaaaaaa tcaaaaaaat 240

tggagggttt ataaaaataa gtcgtttggg aaaaaaacgg gttgtaacga attcagtttc 300

ttaaaaaaaa agccgcttaa tgaacagttg aaaaaatcga acaaggaagg attaaaaacc 360

gtttgaaggg tatttttgac attaaaagg 389

<210> 33445

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-D12

<400> 33445

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ctgtcagcag aggacttcaa gaaggattta gagtgccagc ggttggagcc cacagataac 120

acaaaccttg agcttgacaa cactgatgag tttcgactca cccaaattga attttcacag 180

gatagcttta tgaatggggc agctgaaaag attactgacg actgacgctg ctctagtgc 240

ctctcggcac cattttggta catgaagaaa caactgatct gtttttttgt gggacggcag 300

tgaagtctgc aacaacagtg gtctcgcttt tgctttgagt agctctgggtg cacataaaat 360

aatttatatg aaatatgaaa ggctgaggaa tcatgcggtg ccaactgtgg agtactgttc 420

agtgtgagat tggccttgg 439

<210> 33446

<211> 332

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-023-Q1-K1-D2

<400> 33446

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tcgacatggc tcgcacgcaa tctgccgtag cggtcgccgt ggtggccgcg gtgctgctgc 120
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 tcgcgccctg cctctectac gcccgcggca cggggtccg cccctccgcg tctgctgta 240
 gcggcgtcag gaacctcaag agcgccgnca gcaccgncgn cgacaggcgc gccgnctgca 300
 actgcctcaa gaacgccggc agggggcgtca gc 332

<210> 33447
 <211> 251
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-D7

<400> 33447
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 gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa atgaaaatat aaatacacat aattagataa agaaaaataa 180
 aaagaaaaaa ttgaaagtta cagaaataaa aaaaaattaa aataaactaa agaaaaaaaaa 240
 cattagataa a 251

<210> 33448
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-D8

<400> 33448
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 cgtgacgagg tgcgcaacgg cgctggagga ggctggctcc gactacgaga tcgtgcccac 120
 caacttcgcc accgccgagc acaagagccc cgagcacctc gtccgcaacc cgtttggtca 180
 ggttccagct ctgcaggatg gtgacttgta cctcttcgaa tcacgagcaa tctgcaagta 240
 cgctgctcgc aaaaacaagc cagagctgtt gagggaagga aacctcgagg aggcagcaat 300
 ggtggatgtt tggatcgagg tggaagctaa ccagtacacc gctgcactga atcccatcct 360
 ctttcaggtc ctcatcagtc ctatgcttgg gggaaccacc gaccagaaag ttgtggatga 420

gaacc

425

<210> 33449
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-D9

<400> 33449

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gccaaactta caaccaaaca atttgttacg gttttataac gtcctgaatt ccaaaactct 180
tattctaacc aacttaatat gtttcgatta caaccactt aataaatcta acatcattaa 240
aaataattct atttcaatta cacctttaca acacacactt atcctacaca tcttaattca 300
tttcacattg tactactaca t 321

<210> 33450
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-E1

<400> 33450

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gggattgaat tccgcaatgc ttgacaaata gtgaagttca tactgttatc catgagcact 180
gagcagtatc tgccaagact tttttattct gtcgagaagt gataactatt ccttagatct 240
gctaggtgtg tttggtgtgc aaagggtttt gtggtgttaa gtgttgact tggctagact 300
atagactatt taaagtgtgt tgatcagaga cgaagttggg agttgggaca t 351

<210> 33451
<211> 164
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-E4

<400> 33451

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tactttctac acttccagtt agcaccaaca catacctaata taagcatgat aataacgttc 120
gtatgatata tatatgtgct gcttatgagg aaactacaaa gcca 164

<210> 33452

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-E5

<400> 33452

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aacacttctt aataattgtc tatacgattg aagctgattt gattggtaat tgtaaacaac 120
ttgtcttttg atctttgaag tcaaacaaag tcagttgggt gaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataa aaaaaataa 240
aaaaaaaaaa aaaaaataa aaaaaaaaaa aaatgtaat cacttttaaa ggttctaat 300
tttataaagc ttgcttgctt gataataaat tttttttcc gtcccttaaa ttaa 354

<210> 33453

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-E6

<400> 33453

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atattgcta cacttggtgt gaacaaccg caatatcgag ggaagcttga gaggaagct 120
gtcctcaaag ctatttgtgc tggttttgag gaaactacag aaccaaagt ttgcctgagt 180
gatgatata agacaaatga gtgtctgaat gacaacggg gctgctggca agacaaatct 240
gctaataa cagcctgtaa ggacaccttc cgtggtagag tgtgtgaatg cccactttc 300
aatggcgta aatttaaagg cgatggctac agcaattgtg aacctgctgg accaggaaaa 360
tgcttgatta accatggaag atgttggcat gaaactcgca acggaaaaac attctc 416

33454-33456

<210> 33454
<211> 144
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-E8

<400> 33454

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accgttgtcg ccgcccagtt tggacgaaca caggcatcat agtgaataat aatgtcatac 120
gtatgatata tatatTTTTT gctc 144

<210> 33455
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-E9

<400> 33455

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cagagactga tgatggagat ccgacaatgg aaagtaagta ttttgacagc aggatcgatt 180
tcttgaagca ctgccaaagac aatcaattcc agtttgatac cattcggcgg gcaaagcact 240
ctacaatgat gattctgtat tacctacaca attcaacctg ctctgcttgc catcgtgccg 300
tggaccaatg cttggtgtgg ccgtgcctag agtgcctagg ctgcaccttt tgtggtcaat 360
gctataaaca aaatggtcaa ggcttgcata ttcatgaatt aaggcataat gacactagag 420
aaacttcaca g 431

<210> 33456
<211> 283
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-F11

<400> 33456

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<223> Clone ID: LIB3068-023-Q1-K1-F8

<400> 33459

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 agagatacaa acggatccca gtttttcatc accacagtga caacaagttg gttggacggg 240
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 gaaggccggc agagtggaga gccgaagagc aaggttgtga tagcagatag cggcgagctg 360
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<210> 33460

<211> 56

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-G1

<400> 33460

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<210> 33461

<211> 228

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-G10

<400> 33461

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 gctcttacct aggattctga cttcgacgag ctgagtcac atctgatata ccgtatcttc 120
 actcaaatgc ctttacaat aatctcgatc acacaaatct gttaatcaac ggcttctcta 180
 ccactctcta taaccactat tgcgaatcaa ccattactat tgtactac 228

<210> 33462

<211> 212

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-G11

<400> 33462

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ctctcttagt ccagttacaa tgatttctgg agagtgcctc atcatcaa atgtagttcttc 120
tccatcaacc caagctccta cacactcaac catattcttc gataactcaa ccatatacac 180
accatcactt tccacaacat atataaaatt ct 212

<210> 33463

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-G12

<400> 33463

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tgacaggact cgccgcgggg accatctggg gcaccgtcgt cgccacctgg tacgacgtgc 120
cccgtgtgga gcgccacgtc gcgtccctg gccttatccg gacgtcaag atgtgcggca 180
cctacggggc caccttcgcc accatcgggg gcctctacat cggcgtcaag cagctcgtgc 240
agagccagcg caggaagcgc gacttcgtca acggggccgt cggcgcgttc gttgccggag 300
cctctgtctg cgggttacaga ggaaagagta ttcagtca 338

<210> 33464

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-D10

<400> 33464

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ccgcgagaag cgagagcatg gacaccagg tgaagcttgc tgttggtggtg aaggtgatgg 120
gcaggaccgg ctccaggggt caggtgacct aggtcagagt gaagttcttg gatgaccaga 180
accgtctcat catgaggaac gtcaagggcc ctgttcgtga gggtgacatc ctcaccctgc 240
tcgagtctga gagggaggcc aggaggctgc gctgaagccc tgggtggcctt ggatgtaatt 300

ctgttaattt tgttctatgt ttgtcgaact tgccgtgtga ccttcacaac atctgctttg 360
agatttactc agcctggatt gcagttttat tttatgttcc tgctggaaag tgacttgccg 420
agacatagtt atcatt 436

<210> 33465
<211> 301
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-023-Q1-K1-G2
<400> 33465

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ggtgacttca ctctcggcga ccggaggggt ggtgaatcta tctaccgctt gaagtttgcg 120
gatgagaact tcaagatcaa gcacactgct ccaggcctcc tgtccatgta caatgccgtg 180
agagatacac acggatcgca gtccgtcatg accacagtgt caccctttcc gatggacccg 240
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t 301

<210> 33466
<211> 438
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-023-Q1-K1-B12
<400> 33466

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aagagagttc atccactacg gttctggaag accctgttga gaacaccctg cacggtgccg 120
cccatgcctg ctcccacggc ttcagcgagg tatgcggcct cttggaaggt tttctgaaga 180
tcaagagcat cctttattct gcggttcaca aacgtccaag tatcacggaa ctctggagaa 240
ttgtctgtca acatatacac ctctgaggtt gagtagatac caccaagcac tgtacgtttc 300
acataccaat caatatctga ccagaatct ccagcagcat gccatatctc atccaccagg 360
atagctcgct gcttcaagct tggtgagacg tttgctgggt gagactgaat actcagtgcc 420
tagttctaga tcgcgagc 438

<210> 33467
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-B2

<400> 33467

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ggatctgatt atcttggcac ggggtgtcctt aaggctgtca gcaatgtaaa taacattatt 120
gcaccatcaa ttgttgaaaa ggacccact gatcagggtg agattgacaa cttcatggac 180
catcagcttg atggaacctc caatgattag ggctgggtgca aacagaatct tgtagcatat 240
gccatccttg ccgtttcact tgctgtgtgc aaagcttgag ctatggtgaa gaatattcct 300
ctttaccagc acatctcata tcttgctggg aacaaaactc tggtgcttcc tgtacctgcc 360
tttaatgtca ttaatg 376

<210> 33468
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-B6

<400> 33468

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aaggctgtca gcaatgtaaa taacattatt ggaccagcaa ttgttgaaaa ggacccact 180
gagcaggttg agattgacaa cttcatggtc caacagcttg atggaacctc caatgagtgg 240
ggctgggtgca aacagaagct tggagcaaat gccatccttg ccgtttcact tgctgtgtgc 300
aaagctggag ctatggtgaa gaagattcct ctttaccagc acatcgcaaa tcttgctggg 360
aacaaaactc tggtgctccc tgtacctgcc tttaatgtga ttaatggagg gtcacatgct 420
ggaaacaagc ttg 433

<210> 33469
<211> 430

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-023-Q1-K1-B7
 <400> 33469
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 gagaaacgtg agatttatga tcagtatggt gaagatgccc ttaaggaagg aatgggacgtt 120
 ggaggatccc atgttgatcc atttgacatc ttctcatcat tttttggacc ctcttttgga 180
 ggaggtggtg gaagcagcag gggaagaagg caaaggaggg gagaagatgt agtccaccca 240
 cttaaagttt ctctggaaga tctttacaat ggcacctcaa agaagctctc tctttcgcg 300
 aatgtcatct gctccaagtg caagggcaag ggctcgaagt ctggtgcctc aatgaggtgc 360
 cctggttgcc agggctcagg catgaaagtc actattcgtc agctgggccc ttccatgata 420
 cagcagatgc 430

<210> 33470
 <211> 122
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-023-Q1-K1-B8
 <400> 33470
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 ctaaaagatc ctctccactt gaagttgtac caaatggtat atgatatcgc ctttcccttt 120
 cc 122

<210> 33471
 <211> 422
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3068-023-Q1-K1-B9
 <400> 33471
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 gtgtggatga aacggagctc gggcaggcga ggggtgaggg gacggctcgg atacagtggc 120

ggggtggtcg ctgaggccgg tgcgagcatt aatggcgagg tgacggggcg tgaggcgggtg 180
 aacgcgcagg tgatggcatg ggcggggacga aggtcctgac aggcgggcct gggctgccag 240
 tgggagagcg gcgcgagagg gagagaggtg gagccgctga acggtggggc cggtttgtca 300
 ggtgcggcgc gggcgcgcg agctgggccc cttgggtcgg gggaggagag ggggaaagag 360
 catgcgcgac gcggcttggg ctaaaatcgg cccatccgan ggggggaggg ttttttcttt 420
 tt 422

<210> 33472
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-C11

<400> 33472

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 tctttaggga ttgttaagga gaaccaaata cttcacaag gctctgttga gattgaagat 120
 gattttgcta ctcttctgta taagagtatt tttcctgggg attttctctg ggtcagagac 180
 tctgaaatat atgagaaccg tgacattgca gatgagattt cagaacaaaa ggatgatatg 240
 ctacaggctg aggaaagctt tcgaggaact ctgttgacat caactgtctc agctcagctt 300
 tgtcaggata tagcttttaa tgaatgagtt cccacatcag atatgtagct gcatatctgc 360
 tgacttaagc tgggtgaagc tgcttggaag tgatgctgac tagcttattc tttggtttt 419

<210> 33473
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-C12

<400> 33473

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 gcgcggccta aagcctccag agccacgctg cttcccggcc gaagcctccg tccgcgcca 180
 cggtttccat tccatcccc aggcttgccg cgactcgcca cttgcaccgc cggccgggtt 240

cgccgaacgc ctgcgcgcca cccgcgcgcg gagacctgca tataagccgg ccgcgtgtcg 300
 tccggcgctc ccgggacagg cgatccgttc gtcacccgct gcaaaccacc aggcaccagc 360
 tccgcgcgca gagggccggag gactacgacc gacgagggcg acgaacacca aggctccgaa 420
 gtccgaggag gcaggaa 437

<210> 33474
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-C2

<400> 33474

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 acccgctgga cgacaccaag acgtggcccg aggacctgct gccgctccgc cccgtgggga 120
 ggctggtgct ggaccggaac gtggacaact tcttcaacga gaacgagcag ctggcgttcg 180
 gcccggggct ggtggtgcca gggatctact actcggacga caagatgctg cagtgccggg 240
 tgttcgcta cgccgacacg cagcgctaca ggctggggcc caactacctg atgctgcccc 300
 tcaacgcgcc gcgctgcgcg caccacaaca accactacga cggcgccatg aacttcatgc 360
 accgcgacga ggaggtggac tactaccgt ccaggcacgc g 401

<210> 33475
 <211> 354
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-C3

<400> 33475

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 ggaaaaaaaa taaaaaaaaagg ggcgggttta tttaaagggt ccaagctaaa ataaagcttt 180
 tttataaggt aatgtatttt taattgggtg ccctaattta aaaaaagggg cgactggtaa 240
 aaaccttggg tttgggaaaa aaattggttt acccaaatta aacgttttga aagaaaatcc 300
 ctttttgaaa aggtgggtaa aaatcaaat gcccaaaact tttgcacttt gaaa 354

<210> 33476
 <211> 436
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-023-Q1-K1-C4

 <400> 33476

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 gaagaggaac aagagaaaaa aaaaagaaaag aaaaaagaaa aaaaagagca gaaaaataaa 120
 aaaaaaggaa aaaaaaaaaa acaaaaaaac aaaagaaaaa aataaaaaaa aaaataaaaa 180
 aaaaaaaaaa aggaaaagaa agaagtaa atgaaaaaaa aagggaagaa aaggaaaaat 240
 aaaaggaaag aaaagaaaaa gaggaacaag aggaaaaaag aatgaaaaaa aggaacagta 300
 aaagacaaag aataaaagaa aaaaaaccaa agcaaaaatg aaaaaaaaaa accaaacaat 360
 ttaaaggaat gaaaaaacga atgacaaaaa aaaggaaaat tgagaaaaaa aaaaacgaag 420
 gaaaaacgaa tgaaaaa 436

<210> 33477
 <211> 405
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-023-Q1-K1-C5

 <400> 33477

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 gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa agggaaaaaa aaaaggggca 180
 taaaattaaa atgaacgaaa gaaaaaaaaa aaaaagtaac aaaggaatga acaaaaaaag 240
 aaagacaaaa acacaaatgt aaacaacact taatgccgaa aaaacagatg gaaaaacccc 300
 aatgatgacc aggggtgaaaa aacgccctaa atcaagaggg atctaaacaa gtgcgtatcc 360
 taaaagggga ttttcaaat acttgtctaa agaattggga aaatg 405

<210> 33478
 <211> 420
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-C6

<400> 33478

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ccaagccaag ccgcgcggcg tcaactccaa accctagctc gccgcagtc gccggtgatg 180

tcgtcccctt cgtcgtcccc tgcgcggagg cgggagatgg gggagggcgg cgagctcccc 240

gtccccgtgc ccgtgcccgc ctccgtcgtc ggcgacgaca aggtcctggc ggcggcgcag 300

cacatcgta agtcgctcgc cagtcctaag aacgcgcgcg acgacatgat ccgcatectc 360

tccgattcg accaccgcct ctctccatc acctccgacc tcttcccgtc cccgtcccc 420

<210> 33479

<211> 96

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-C7

<400> 33479

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aattctcttt ttcaccgtgc ctttccactc accacc 96

<210> 33480

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-C9

<400> 33480

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gcagaagaca atacaaagat gtccaagggt gcggacgaga aggcggcggc agtgggcgga 120

ctcggaggag ccggggcggc tgacgcggcg cagcagcagc agctggcagc aggggaggcc 180

gctgcggcgc ggggtgcggtc cgtggagacg ctgcttcgcg cggcaccgct ggggctctgc 240

gtggccgcca tgaccgtcat gctccgtaac cagcatagca acgagtacgg cgccgtcgac 300

tacttcgacc tgggaggctt caagtacctt gtctacgcca acggtctctg cgctgactac 360
 tcgctggtat ccgcgttcta cactgacgtg ccgaggcctg ccaccgtggt gcgctactgg 420
 ctcgtcttac ttctcgacca agtggttcacg tacctga 457

<210> 33481
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-D1

<400> 33481

aaaaaaaaa aaaaaaaaaa aaaaaataa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg 60
 gaaaggaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaggggtaa atcttttaag aatggaaaaa 180
 tattgtaatg atacaaaaaa attaaaattt tattaaattg ggcttaaaat aaataaattt 240
 agagccaata ttaaaaaaac cgtactgggt aaaaaaacag ggtgtcaaaa aaaaaaaggg 300
 attggaaaaa aaactttttt tgaaaattaa gcgaaaaaga aaaaaagggt actcgaagcg 360
 tttttgaaaa aattggcaac actctaaagg caaatgaata ccctttt 407

<210> 33482
 <211> 381
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-B11

<400> 33482

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 atgttgagta ccgctgcttc gtcggcgggc tcgcctgggc cacggacgac cactccctcc 180
 acaacgcctt cagcacctac ggcgagggtc tcgagtccaa gatcatctc gatcgggaga 240
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 ccatcgaggg catgaacggc taggagctgg acggacgcaa catcaccgtc aacgaggccc 360
 agtcccgcgg cggccgtgga g 381

<210> 33483
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-G2

<400> 33483

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ggatatggcct ccatagctca taagcagcat ttaccctct taggaattag gataagacat 120
gtaatgccta cattattgtc ttggttcata ttgcataacc attggagcaa tgaaagcctc 180
accatttttt ggattgtcta gattggtttg acgctgaaga agctatttga agaggggtgta 240
gtgaagcgac gagatctgtt tatcacctct aagttgtggg gtgctcaa at ctctgggtgat 300
attccaatat ttatgtctca tgcattctcat tttggaaaaa ctcatacgaa aagcagattt 360
caagtggaat ttgggtcttca gtgtatatac acctacaatt tgggtatttct atgtgatttt 420
tttgtttgag tctgaacatc aataatttat gg 452

<210> 33484
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-G3

<400> 33484

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tgtatggcct ccatagctca taagcagcat ttaccctct taggaattag gataagacat 120
gtaatgccta cattattgtc ttggttcata ttgcataacc attggagcaa tgaaagcctc 180
accatttttt ggattgtcta gattggtttg acgctgaaga agctatttga agaggggtgta 240
gtgaagcgac gagatctgtt tatcacctct aagttgtggg gtgctcaa at ctctgggtgat 300
attccaatat ttatgtctca tgcattctcat tttggaaaaa ctcatacgaa aagcagattt 360
caagtggaat ttgggtcttca gtgtatatac acctacaatt tgggtatttct atgtgatttt 420
tttgtttgag tctgaacatc aataatttat g 451

<210> 33485

<211> 223
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-G4

<400> 33485

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gctgaagtga aatgggttccc ttctcttcaa tgctgaaaaa aggggaaaaa aaactatgtg 120
aaaatgatgg tagacgtgtc tgggtcagta ataagagttt ctaaaatctg aatgagattt 180
gaatcgctct ccgttgatga atttctcatg gtctgtgtat tcc 223

<210> 33486
<211> 117
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-G6

<400> 33486

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aaaagaaagg taaaaattaa aacttacttg cacatccttt ctaaactccc attctta 117

<210> 33487
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-G9

<400> 33487

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cgatcaaggc accgtcgggtg ttcagtgtgc gcaacatcgg gaagactctc gtatccagga 120
cacagggtac caggattgct tctgagggtc tgaagcacag agtctttgag gtttgcctag 180
ctgatcttca gggtgacgag gatcaagctt acaggaaaat caggctccgt gctgaagatg 240
tgcagggcag gaatgtgctc aaaaactttt ggggtatgaa ttttaccact gataaattga 300
gatccctagt gaagaagtgg cagacattaa tcgaagccca tgttgatgtc aagacaaccg 360
acaactacat gttgcg 376

<210> 33488
 <211> 389
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-022-Q1-K1-H1

<400> 33488

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 ctgagccgat ggggcctcgt gcctgcaggc tacctagcag tacttcgccg gctgctgccg 300
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 ttcggtgctg tcgtgtcgtc gtcgcattt 389

<210> 33489
 <211> 212
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-022-Q1-K1-H10

<400> 33489

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 gaggacgtga tcgattgtgg attgcctatc catcattntc catagtaatg aaaatgctct 120
 tggctcgaca tagtctgttc tattcgtccc gaaccgaatt ttcgctgggt tgtttgtaag 180
 taaagtaaatt attacacgat ggagctcgag ag 212

<210> 33490
 <211> 291
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-H12

<400> 33490

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gcttgggtctg tagaaaagga ggatggaacc tttgaaattc cagaatcctg ttgaaaggtc 120
aaccctcgaaa aaacctacca ctgttgcaaa ggagccaggt aaaactccga agatgaagaa 180
gcttagaaac ctcagatcca gatatggaca cagttcacaa catattctcg ttgccacac 240
ccaattcatc cgaggctctg ttacacactc tatgtggaac accacaggtg t 291

<210> 33491
<211> 199
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-H2

<400> 33491

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gtacgggtgca tcagatgtcc ctggacagta aatctggcta aacgacaatg actgtcggcc 120
ggatcggaac cacaagacat aactcttgac ccagaacgag ggcgcgtgtc ccgacttcct 180
aacatcgact tatgccgac 199

<210> 33492
<211> 88
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-H3

<400> 33492

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gggcggtgca acagatgcgg ctggacaa 88

<210> 33493
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-H5

<400> 33493

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 cactgccgag gtccagaccc cgaccgtcgt ggcgaccgag gaagcgccgg tggaggagac 180
 cccggctccg cccgccgtcg tgcccgagga ggctgcccc gccgccgagg ccaaggtgga 240
 ggagccagct gccccggcgg agaccgagcc agctgccgcc gctgagccc aggcggcccc 300
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 gccggagccg gcggcggttg aagaggtgaa ggaggaagcg 400

<210> 33494
 <211> 284
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-H6

<400> 33494

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 ggcgggatgg cggggacgag cgccacagc gaacgagcag acgagcctct gaaggaggcg 120
 ctgttggtcg cccgcaacgg tagcggcagc gacggcgact gcgagaagga cctggaggag 180
 atccggagcg tggggtcgtt cctgcggcac gcgggtggagg agaaccggaa gctctggtac 240
 cttgcgggcc ccgcatcat cacgtccatc acgcagtact cgct 284

<210> 33495
 <211> 273
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-H8

<400> 33495

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 tggcaccatc cctgtgagta ccaacactac taatgcagct cgccatgctc tatcagtacc 120
 gaccatgggt gctaactaga tctccgactt agagaaaaac actaataata ccgcacatgc 180
 tatcttttca cactagatt ttcaaagat cgccatcacc aatagcatga atctcatgca 240
 cctgtccaac tccgtcaaac tactattctt cta 273

<210> 33496

<211> 294
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-023-Q1-K1-A11

 <400> 33496

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 tattgccaac taccttagct aagggttcta actgtatgcc attgttgaga aaaatatctc 120
 tgaagggaaa ttatcggctt tctgataatg gtttggtcac aatcatctcg gctgcacctt 180
 ctttatgttc cataaatctg tgtgagtgtt ctcttctcac ttaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaacaaaa aaaaaaaaaa aaaaaaaca aaaaaaaaaa aaca 294

<210> 33497
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-023-Q1-K1-A12

 <400> 33497

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 tcaaagggttc ttgatgctga tgtgacagac agtggttattg gagaagggtg tgttattaaa 120
 cattgcacaa tcaatcattc cgtagttgga ctccgttctt gcatttctga aggtgcagtt 180
 atagaggact ctttgctaata ggggtgcagac tattacgaga ctgagaatga taagaatgct 240
 ctttctgaga ctggtggcat tcccattggt attgggaaaa attcacatat cagaaaagca 300
 atcattgaca aaaatgctcg cattggagaa aatgtgaaga taatcaattt tgataatgct 360
 caagaagcag taaggagagac agaaggatat tttatcaaaa gtggaattgt cacggtgatt 420
 aaagatgc 428

<210> 33498
 <211> 406
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-023-Q1-K1-A3

 <400> 33498

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catccgctcg catccgtcaa atcagttgat acgaagacat tagaggatat aatcggccct 120
tcaacttcaa tgaagtctca tacacatcca gtgaagcctc gctttcaagt cagcaatcgg 180
cctaaatgca atttgctaaa taaaagttct attgattctg agcaaactat ccaatcttct 240
atagcctcca agataacaac tttgattgac ccgcggcacc ggtatgacca caaccttcac 300
tgctactacg actgctgggt ccactccgaa agcaagcagc ctttctccta ctggccgcac 360
ttgaagaaat cttatatcag tttgaggaaa aactccaagc tgaaag 406

<210> 33499
<211> 64
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-G11

<400> 33499

ggctgtcttt gcttttgtaa ttgaaaaaaaa aaaaccccg a cttcggtagc aatacatctt 60
gttg 64

<210> 33500
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-A5

<400> 33500

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aaatccggct atgggttatg tatatttgca atttgtctta tgaagacatt ctaccatag 120
atctcgcta tgactttact gatttttgct ccacttctag tgctgcctta gtttctcaca 180
tgcatgttga ctagatgcc a tttactaata tctaccgcta ctgattctgt tcttactatg 240
caatcttcta taagctacct tattacactt atgctagacc cacgatacct gtatgaccac 300
atcctttact gctactacta cttttacctt gattttcgaa atcgcgcatt ctttcttct 359

<210> 33501
<211> 429
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-023-Q1-K1-A9

<400> 33501

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caacttcctc cttcccaagg gcaaggctac acttctgacc ccagaagtcc tcaaggaaat 120
gcagctggag caggagagaa tagaagctga gaaaaagcgg gtaaaagaag acgctcaaca 180
acttgctcga gtttttgaaa ccattggcgc tttcaaactc cctcgcaaag gtggaaaagg 240
aaaacagatc tttgggagtg tcacggcaca ggatgttggt gacataataa agtcacaact 300
taatagggat gtcgacaaga agctgggtgac ggttcagaa atccgtgaaa tcggagagta 360
tgttgcagag atcaagcttc acccagacgt gatagcgcga gtaaggcttg atgtctatgc 420
gaaatgagc 429

<210> 33502

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-B10

<400> 33502

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gctactacct gggcatgttc ctcgggggcg cctaccagga ggccctcggc gggctgcaca 120
acctcttcgg cgggcccagc gtggtgcgcg tgtcccagtg cgacggggcc cactgcttcg 180
ccgtgacgcg cgccgcgcg ggcccgtcct gcgccgacgt gtcgcgcgcg atgcagcacg 240
agcccagaggt gatgtacgag gtgctgaagc agaggaccga cggcgccacg gccgccgccc 300
tcgcccgggc cttcggcgca atgccgtacc tgggtttcga ccccagaggcc gccgtgatgt 360
ccggcgggcg gagcagcgac tcggagcggg cgcccgccgag gaggaagacg 420
atgaggagtg ggagttcatt 440

<210> 33503

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-D12

<400> 33503

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acttcagcaa aggtccgcga caaaggttac ctttccttta gtttgaccca atacctgctg 120
cagtcaccct ctgtaccgtg agtctgagct tatccaggag aactaccttg gtgtgagaaa 180
tgcagcacag aggaagctac tggatgagct gggcatccca gcagaagatg cccagttga 240
ccaattcacc cctctgggcc gaatgcttta caaggcacca tctgatggga aatgggggga 300
gcatgagctc gactacctgc tgttcacgt cggggacgtg aaggtgcagc cgaaccaga 360
tgaagtcgct gatgtgaagt acgtgaaccg cgaggagctc aaggagctca 410

<210> 33504

<211> 346

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-022-Q1-K1-D5

<400> 33504

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ggcgacctcc gttcgtggtt tcagtagcgc cctcagggat gtgccgggca gctacggcct 120
tccgctggtg ggcgcgtcc gcgaccgct cgacttctac tacttccagg gccaggacaa 180
gtacttcgag tccgcgtcg agcgtacgg ctccaccgtg gtgcgcatga acgtcccgcc 240
gggccccttc atggcgcgcg acccgcggt ggtggcggtc ctggacgcca agagctntcn 300
cgtcctcttc gacttggaca aggtggagaa gagggacctg ttcacg 346

<210> 33505

<211> 89

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-D6

<400> 33505

tcgaaaaaaaa aaaaaaaaaa aaaaaaaaaa acaataaaac aaacaaataa aaaataaaca 60

gatatggcaa cctaaaaaaaa aaagaaaaa

89

<210> 33506
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-D8

<400> 33506

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aagaaaaatt ttattaaact tcaaaaacat cataactaaa aaaaaaacag aacaaaaaca 120
acacgaaaaa taaaaaaca cactacagga cctcctaaac aaaatccact accaaggccc 180
atgacaagaa aatcaaaacc aattgcaaag cgctaccgaa tacaaaaatc aaaagcaaga 240
acataaaaaa aaagcgccac cggaacacc aaccaaacca aaatccaaac ccctacccca 300
aaaaccccct taccgaacc gccaa 325

<210> 33507
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-D9

<400> 33507

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ctgcgggaga ggagagggtta gaggagttgg gcgtgcagca ggatgagcgg ggaggaggcc 120
gacggctcca agccccaggg agggggcgta cactacggca ccttcagggg gccgcccagc 180
taccgcccc cgcgccccgc gccgagcctc tccgcccacc accgcggcga ctaccaggcc 240
gttcccgcgc gagattccga agcaggtgtg cggggacgta gccatgatcg acttcctgt 300
tgtggcattg gttttggatg gtccctgttt atagtcgg 338

<210> 33508
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-E10

<400> 33508

aaaaaaaaa aaaaaaaaaaC aaaaaaaaaa tttaattaaa aaaaaaaaaa aaaaaaaaaa 60

gagaagagaa taaaaaaaaa aaaaaaaaaa ggacacccaa ttttacagga aaccgggctt 120

tctttccctt gcattcaact tcatacctct tctattgggt cacttttttt cttttttttt 180

tccctctttt tacaacttct tttctggcaa atccctggcg ttccttatct taatcccttt 240

gcttcccatc cttgtttccc tatttggcca tttatcttaa aggcccgaac caatctccct 300

ttttaccctt ttctcatgct tattggtaaa ttttaccctt cctttttccg cccattaagc 360

tccct 365

<210> 33509

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-E2

<400> 33509

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gctcggtgaa tatcggcgag gaggtgtggc tcacatgcct ctcccacgcc ctactaccg 120

agaccgagga ggtcatgggg ctctcctcgc gcgacgtcga gctttccagc aaggctcgcca 180

cagccctggt atggggggcg tcgccgcaga tgaggtgcga gcggaagaag gaccgcgtcg 240

aggtcaaccc cgagcttctc gccgccgcat ccgcgcaagc cgagaaaatg acggccacca 300

tc 302

<210> 33510

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-E3

<400> 33510

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gcggctgccg aggatcagct gcagcgccac cgatgaggcc agcggcgccg tggtcggccg 120

tcaccgtgga gaagatgctg acggtgacgg cctcgggtgca ggcggcgccg gccatcggtc 180

agatgtactt ccagcgcgcc ctgcgacgacg ccggcgactt cttcggcaag acgctgctga 240
 tggaaactcgt cagctccgag gtcgacgcaa agacgggtct ggagaagccg cgggtgacgg 300
 cgttcgctca caagacgctg cgggagggcc actacgaggg ggagttcaag gtgccggcgt 360
 cgttcgggcc cgtgggcgct gtgctgctgg agaacgagca ccacaaggag atcttcatca 420
 gggagatcaa gtcggtcacg ggcagcgaca 450

<210> 33511
 <211> 341
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-E5

<400> 33511

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 aaaaaaaaaa aagaaaagga aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataa 120
 aaaatcccaa cgcttctctc aaccttctct tttttaattc cggtgcgccc gttttaacgg 180
 ctccatgttt acttacactt ccttgcaact tcttattttt tttttagggt cacttaattt 240
 tatttccttg cccctttttt tccaacttgc taactgggat accctttctt ttccctagct 300
 tattcgcttt gcagaatttc cctttttctc cagttgcctt t 341

<210> 33512
 <211> 300
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-E7

<400> 33512

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 gtggagggga aagaggagga cgtgcgcctg ggcgccaaca agttctcgga gcgccagccc 120
 atcgggacgg cggcgcaggg cgccgctgac gacaaggact acaaggagcc cccgccggcg 180
 ccgctgttcg agccccggga gctcaagtcc tggtccttct accgcgcggg catcgccgag 240
 ttcgtcgcca ccttctcttt cctctacatc accatcctca ccgtcatggg cgtctccaag 300

<210> 33513

<211> 449
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-022-Q1-K1-F1

<400> 33513

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ggcaggggtcg cagtgggtcag tagccgggtc ggccgggtggc cgcagattct caccagcagc 120
gccatacctc gccgtcgccc ggcgctccag cccagggcag gagaggaggc cactctgact 180
gtcactctga gcttcgcgtc acctgagtag tgacggacga catgggagaa gttgaggaca 240
tgtacacca agacgggacc gtggacatga aagggaatcc cgccgtgaag aagggcaccg 300
gcaactggcg cgctgcccc tacatcctcg cgaacgagtg ctgcgagagg ctggcttact 360
atggcatgag caccaacctg gtgaactaca tgaagaccg acttggccag gtgaactccg 420
ttgtctncaa caacgtcacc aactggcaa 449

<210> 33514
<211> 126
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-F11

<400> 33514

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cgctgggttat atcacctcct ttgcactttc aacctacttc ccctcctatt caaactcccc 120
acctta 126

<210> 33515
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-F12

<400> 33515

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gactggatcg cagtgggtcag tagccgggtc ggccgggtggc cgcagattct caccagcagc 120

gccatccctc gccgtcgccc ggcgctccag cccagggcag gagaggaggc cactctgact 180
gtcactctga gcttcgcgtc acctgagtac tgacggacga catgggagaa gttgaggaca 240
tgtacacca agacgggacc gtggacatga aagggaatcc cgccgtgaag aagggcaccg 300
gcaactggcg cgctgcccc tacatcctcg cgaacgagtg ctgcgagagg ctggcttact 360
atggcatgag caccaacctg gtgaactaca tgaagaccg acttgccagg tgaactccgt 420
tgccttcaac aacg 434

<210> 33516
<211> 291
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-F6

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tcgatgccgt ttgccccgac aaggggagctg gggagacgtg cccgacagcc attcatgatt 120
tcgaaggtga ccagacctac agcgagaagc ctggccacga ttttactctg acagcgtcgt 180
ttggaagtgt ggatgcttcg agctacgacg cgcttggtgt tcttggcgga cgggctccag 240
agtacctggc tctgaacgat aaggatcatca gcttggtgaa agccttcgcg g 291

<210> 33517
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-D11

<400> 33517
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gccactcgtc ttctctctcc tctctcttgc cccgccccct gccggcgcggt ggggaaagga 120
gggccacatc atggtctgca agatcgccga gaagtacctg tcggagaagg cggcgggcggc 180
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ggaccagggt cgctggcact accactgggc cagccccgct cactacgcca acacccccca 300
agtctgcaac ttcaagtttt ctcgggactg ccacaattct cgtggccagc aagggatgtg 360

cgtcgctcggg gctatcaaca actacacgga ccagctctac agctacgggc agaagacttc 420
gtataacctg accgagagcc tgatgt 446

<210> 33518
<211> 214
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-F7

<400> 33518

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cagatgctgt ttacctcgac aaggtaactc gggaaacatt accaacaggc attcacgatt 120
tccaaggtta ccagacctac agggagcaac ctggcccaga ttttactctg acaacgtgcg 180
tttgctattg cggacgctgt aagctacctc ccgc 214

<210> 33519
<211> 184
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-F8

<400> 33519

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gacatgctat tctccttagc aacctatact cttattaca aaccaacatc catcatataa 120
tacctacatc accagattta cacatatcaa cttaccatca aatcaaatat aaccatatcc 180
attt 184

<210> 33520
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-G1

<400> 33520

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acctacccta agacgtgctg tgctaacagc cactgctggag ggatcctctc tatatgcaac 120

tactcttcca tacacagtgt gctgtactgc aagaccact tctagcagct cttcaacgag 180
accttttagct tcttcaagaa cttcacgcca tgtggcaagt cttcagacaa tggatgaactg 240
acaatggccc ccagcaagct atcatctgcg tttcctagta ctcataataa gtg 293

<210> 33521
<211> 431
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3068-022-Q1-K1-G10
<400> 33521

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cagttggtgc gaagtcctgc cttgccttg gatctgcggg gtcggaaccc ggccgcgttt 120
gtgctgaag tggaggccga ggcctcaagg attgtagggc gatacgtgcc gaagaagaaa 180
accttgccga gttgggatat tcgcggttct aatgttcgtt tgaaccgtgt tttcgagtgt 240
aaccgtctgc catatggcgg ttaccggga gacgacgatg ctggtgttgt cgaccgccgg 300
ggaaaagggc ggctgctgcg gtcgacgagg gcccttcgcg gggagtgtgt ccggccgcga 360
ccactaaaaa gaggaacta ggtactgcag ttganggggt gggggtctcc gaccgttttg 420
ctgtcgattt g 431

<210> 33522
<211> 281
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-022-Q1-K1-A2
<400> 33522

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gaagcaagca agcaccgagt acatacatac taggcagcca ggcagccatg gcgccaaccg 120
tgatgatggc ctgctcgccc acggccgtgg ttccgttcca ggggtcaag tccacgcgaa 180
gcctcccagt cgccggccgt tcctccagaa gcctgggcaa cgtaagtaac ggccgaagga 240
tccggcgcgc gcaggtgtgg ccggcctacg gtaacaagaa g 281

<210> 33523
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-A3

<400> 33523

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ccgacttctt gaaaattgct tcaagagcta taattgacag atactttgga caaagtgctc 120
gcttgattat agaaaatgtt tggctatgca cgtgatcacc taccatgcat catgttcattg 180
gatgaaattg atgccattgg tcggcgaaga ttcagtgagg gaactagtgc tgatcgtgag 240
atgccacgga cattgatgga actccttgaa taattagacg gttgtgatga actctgaaaag 300
gcctagatga tcatggggcac gaatagacct gatgtactgg ac 342

<210> 33524
<211> 352
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-022-Q1-K1-A4

<400> 33524

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tgagccagaa cccgagccag tgaaagagga agcaccagaa gctgaaccgg atttgctggg 120
tctgaacgaa ccgaaccctg ctgcaactgc gatagaagag cagaatgctt tggcgctagc 180
tattgttccg atagatgatg ctccgaaagc tgctccact tttggaaatg gagtcactgg 240
ctgggaactg gcccttgtga cagcaccaag ttcaaagag accgccgttg cccaagcaa 300
gaaactggcc ggtggtctgg acttgctgac cctcgacagn ctgtacgacg ag 352

<210> 33525
<211> 108
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-A5

<400> 33525

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 taacctatac acttatcagc gccctatcac ccattggttt aaatttat 108

<210> 33526
 <211> 294
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-022-Q1-K1-A6

<400> 33526

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 gtacctcaag ctgaaagcga ggggtggataa tttacagagg actcagagga atttgcttgg 120
 tgaagatctg gggtcacttg gtgtcaaaga gcttgagcag cttgagaagc aacttgattc 180
 atccttaagg cacataagat ccacaaggac acaacatatg cttgatcagc tcaactgatct 240
 tcagaggagg gagcanatgc tgtgtgaagc atataagtgc cttagaagaa agct 294

<210> 33527
 <211> 278
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-A8

<400> 33527

cccacgcgtg cggccacgcg tccgcccacg cgtccggttc tttttcgcg ccccgcttc 60
 ggcgcgggag gttcgggggg tccaccgtgg cgtgcttctt gtcgcttc tcgacgggag 120
 ggcaggccac gggcaccttc gggctgacgg gcgtgtcggg gtgggaggcg ctgggtgctgg 180
 agatcgtgat gaccttcggg ctgggtgtaca cgggtgtacg cacggcggtg gacccgaaga 240
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<210> 33528
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-A9

<400> 33528

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ttcgcttccc ctgaggcaac ggctgtactc ggcacacaga cctggcttat gagcaggatt 180
tttcagccaa gccaaagtgcg tatggttgct acctgtattc tgataggcca cttaatgaca 240
ctggctccca gttattgact tatgaagaat ggcttctcga tggaagagaa acaataatag 300
gaaaatagga agctgcaatc agaaccggct aactagacaa aaggagagag attgggtcaa 360
ttcaatatga ggaatttcta ccgattattg agtgggtttgt ttccttttcc ctgaaaggta 420
aatgggttta 430

<210> 33529

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-B1

<400> 33529

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tgcccatctt cctccgttaa ccattggcgac ccagatcagc aagaagaaga agttcgtcag 120
cgacggcggtg ttctacgccg agctcaatga gatgctgacg cgggagctcg cggaggacgg 180
ctactccggc gtggagggtgc gtgtcacacc gatgctgacg gagatcatca tccgcgcaac 240
gcgcacgcag aacgtgctcg gcgagaaggc ccgcatgac agggagctca cgtctgtggt 300
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<210> 33530

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-B12

<400> 33530

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cgtcgcggcg gctcacgcag agcccccgct cgtcgctggt gaccagggcc cgtggcggcg 180
gcggcggcg ttcaccaca ccaagaaaca cctctcgtcg tcgttgacca gaagaaccaa 240
ctgcgtgatt cgcgttgctc tttggagacg ggagacggcg gcgtgactgc gtgcaggcag 300
actcagacga caccatgatt cggcacggcg ccagcatgat atgagacaaa ccaagtatat 360
gaagcaagta tgatgtgaga gaattgcgat gcaacacata atgtacatac ttgttaggga 420
gatattgctt agattaatac tacgaccga 449

<210> 33531
<211> 215
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-B5

<400> 33531

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gtattttttt tttttttttt taaaagaaac ctaactaaaa aaaaaatacc cacagaatga 120
acataaaaaa acacaccac aaaaaaccat caccaaaaaa cacaaaaaac aacgcaacat 180
caaacaaaac cacaaccaca acaactaaca cagac 215

<210> 33532
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-C1

<400> 33532

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aggaagagct catttgactc actgccatac atccactata tagaccgcat cgacagttgt 120
gccatatcaa ttaataacgc acacgccgta actaatgaaa tcattgcgca tcacttgaat 180
gcgactacca ctacattcca ataaatgact aatagaacca tatttgact ggaataagtc 240
attgctactc taatgcacga ctacttaaca ataggattca ccacagatac taatctgtct 300
cactatagcc gcaacaacgg cctactcatt cacatccacc gacccatgca ctcacatatt 360
gatagacata caaatcatga cttgcatatc cgtggattat ctaaagcata gctgatgtct 420

gagagagatc atatgcacta c

441

<210> 33533

<211> 203

<212> DNA

<213> Zea mays

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<400> 33533

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gtcggtcaca gggaaacaca ttgcgaacct ctacccgggc atttaatggg tcccgtacaa 180

agtcccgttg tacgccatga aga 203

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<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-C12

<400> 33534

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ggaaaggcac atttggaag gtgcactacg caaagaatct tgagtccaac gagagtgttg 120

ccattaagat gatggacaag gacaaagtgc tcaaggccgg gctttcggag cagataaggc 180

gggagatcac aacgatgcgg ttggtggctc ataagaacat tgttgagctt catgagggtca 240

tggcgacgcg gaacaacatc tactttgtca tggagtatgt gaaaggcgga gagctctttg 300

acaagattgg caagagtggc aagctcacag aggccgctgc acacaagtac ttccagcagc 360

tcattggtgc ggtggattac tgccacagcc gaggtgtgta tcaccgggac ttgaagcctg 420

agaaccttct gttgga 436

<210> 33535

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-C3

<400> 33535

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gcgtcctgct cgccgccacc ttctcgccg cctccgctaa cgagcaagcc caggcggcca 120

aagaggagaa gaaggcggag gtccaagact ggcacggcgg cggcgggtac ccggggcacg 180

gcggcggcgg cagcggaggc taccggggc acggcggcgg cggcggcggc ggctaccgc 240

actgccggtg gggctgctgc aaccgcgggt accatggcgg ctgccggtgc tgctcgacc 300

ctgatcagat accagagccc atgtaccgtc ctgagctcgt cgaggccac aactaaatag 360

taatgagatg cgctgctact atatatacgg ggacgtatgc ccgatgggaa gcagagcaca 420

cgcgtagtac gctc 434

<210> 33536

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-C4

<400> 33536

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gaggatttgg ccgagttcta ggtagagaat cggttttact tgtctcagcc cgggggtctgc 120

tgctctggtt ggtggtgaag gggagaaatt cgtgagatct gttccggatc aggcgtgcga 180

gctcgggaat caggggtttc acacatagct tcgtcgattt gaatttgatg tactaatgga 240

gtctaagggt ggcaaaaagt ctagcagtag tcgttctatg atgtatgaag cttcccttg 299

<210> 33537

<211> 55

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-C6

<400> 33537

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<210> 33538

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-C7

<400> 33538

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ggcggcgcaa actctcgccc gagcccgaca gatcttcaat tccccattcc gccaccgat 120

cgaccttcac gccagtctcg gtctcttccg aaggcgctgc gcgcggttgt ttgagaggag 180

aggaggaaga tgagggagtg catctccgtc cacatcgggc aggccggcat ccaagtcggc 240

aacgcgtgct gggaaacttta ctgcctcgag cacggcatcc agcctgatgg ccaagtgcct 300

ggagataaga ccgcgggaca tcacgatgat gccttcagca ctttcttcac ccagactggt 360

gctgggaagc acgttccccg tccaatcttc gttgatctag aaccaactgt gatcgatgag 420

<210> 33539

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-C8

<400> 33539

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cgacgccgtg gcaatggctg ccagcgccct gcttgccggc ggtgccatgg cccaggaggt 180

gctgctgggc gcaggcgacg gcgggctcgt cttcgagccc agccagttca ccgtcaaggc 240

cggcgacacc atcacattca agaacaacgc cggcttcccg cacaacgtcg tcttcgac 298

<210> 33540

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-A11

<400> 33540

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gggcggcggc aacgcccaga agtccaagat ggcgcgcgag aggaacgccg agaagaacaa 120

gggcggaacaa ggcagccagc tggaggccaa caagaaggcc atgaacatcc agtgcaagat 180
 ctgcatgcag accttcatct gcaccacctc cgaggccaag tgcaaagaac atgcggaggc 240
 gaggcacccc aagaacgacc tctaccagtg cttccccac ctcaagaact agtaagcagc 300
 agaagcatat gctctgctca gctaaaagac aagtactaca tatatatata tatacgctgt 360
 gtgtcaatta atgggttcta ggctgctgct gatgcggctg cttcggtc 408

<210> 33541
 <211> 182
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-D1

<400> 33541

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 gacgcatcat ccaaattgtc tgccctatca actctcatat agaatatcaa taacctacca 180
 tc 182

<210> 33542
 <211> 203
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-D10

<400> 33542

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 tgcccctggt tttataaacg cttctcctgg gaaaccctg gctttccac ctttactcgc 180
 tttactatcc ttccattct ctt 203

<210> 33543
 <211> 371
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-F2

<400> 33543

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ccctgctccc accgacgtcg cattagtgtg tgatgatctc attcttcgct attttttttag 180

ctccctacac caaagaccac agtcagatcc gaggtacccc gccgtcccag caaggatttt 240

acccggccga agctctgcaa catcggtggg atcgatggct gcgaccatca cgagctccgg 300

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ctgtccgacg c 371

<210> 33544

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-F3

<400> 33544

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gacaggggct ttatctttta acagatgtgc cgctctagcc aaactcctca cctgacaatg 120

tctttcgctc ggatcggccc ggtgaggcct gtccttgga ccaaaaggag gggctgtgcc 180

ccggtatcga cccacggaat tatgttaa ataacgttaaaa gtattggat ttcacttcgc 240

gccccgaggc ttccacttat tccaacactt ttttaagtc ttttacaaaa t 291

<210> 33545

<211> 208

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-021-Q1-K1-F4

<400> 33545

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cggtagcggc gcctgcagcc cctggatact gcgtcccgt cccttgcgcc tncgcccgtg 120

ccctgctccc accgacgtcg cattagtgtg tgatgatctc attttttcgct atttttttta 180

gctcctacac caaagaccag agtcagat 208

<210> 33546
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-F5

<400> 33546

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 gccgccggcg ggccggcgccc tgaagccgga cttctatagc cagtcgtgcc cgcgcgcgga 180
 gcggatcatt gcggaagtga tgcagacgaa gcagatggcg aacccgacga cggccggcgg 240
 cctgctccgc gtctttcttc acgactgctt cgtcagcggg tgccaagcct tcgggctgaa 300
 cgggttcaac caggttcaga aatccgaacc ccacgccgag atcaaccaat tccttcccgg 360
 ggacccttt gacgccctgg tgcccccaa gcttgccctt gaacttgaat gccccggg 418

<210> 33547
 <211> 272
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-F6

<400> 33547

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 gtaggggagc ctgaagaccc tggatactgc gtaccgctcc cttgcgcctt cgtccgtgcc 120
 ctgctccac cgacgtggca ttagagtatg atgatctcat ttatcgctat catattagct 180
 ccctacacca aagaccagag tcagatccga agctacctcg ccgcccagca aggattttac 240
 ccggacggag ctctgcaaca taggggggat cg 272

<210> 33548
 <211> 58
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-F7

<400> 33548

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<210> 33549
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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-F8

<400> 33549

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gggtctgaat ggagttacag acatttgata gtgctctttt gtgcaatcaa ctgtgataga 180
ttcgccatac attagatcca aagttcagct tggcatgcat ggaatcgagg aagtgttgg 240
tccgggtgag ttcaacaagt tcgagacgaa aggtgtggaa aacctcaagg tcgagctcaa 300
gtcttccatc gacaagggtg tcaagtttgc tcacgggaac t 341

<210> 33550
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-G2

<400> 33550

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ggaacggttg cgcagtacta aaatatggag gcttctattg taccatcct actaggaaat 180
tatgagccag ttgatgaggc atgaattatt tcacgacttg gccgcgggta gtgtgaaaag 240
gcgacgctgc tatatatggt catcacctt ggtttgtccg ttcgccagat atcacgatta 300
tcatatttat cggttgtaat ataagcttct tgtatt 336

<210> 33551
<211> 332
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-G3

<400> 33551

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cggccggcct gcacgcccgc cgtgttggtg gtacgtacgt acgtatacat gtatgtatgt 180

atatgcgcgc gtgtgatgca cgaataagcg tggctacgta atctatcgta tgtacaacgt 240

ggggaatgca tgggcttggg tatgatccgg gtaccgggac ccaaaaaggt ttccaccctt 300

ggtttcctta aaaaaaaaaa aaagggcggc cc 332

<210> 33552

<211> 53

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-G4

<400> 33552

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<210> 33553

<211> 200

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-021-Q1-K1-G5

<400> 33553

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ggagcattac taccgaacgt tcgacaccaa ccgcgcggcg ctggttgggc tgtaccagga 180

gacctncatg ctcaccttcg 200

<210> 33554

<211> 379

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 33554

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aaagcgatgc ctaccatacc aactgctgt cagtctctgg agcatttagg tggctctggat 180

caatggaagg gttgtgtcct agccagccgg caaagatgag ctgctgatgg taatgatgat 240

gataagaggc cactgctacc ctactacgta cctnctctt tgtgtgctgc catccgtccc 300

cgttagacga tcgaggagag aataacgcat agctctctgc tcccggcctg tcttctgccg 360

tcccggccgt ttaattact 379

<210> 33555

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-G7

<400> 33555

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ttgtgtgcgt tctatgggac gcactgagcc cataaatcga ttcgtgacta ttagggtatg 240

tgtagtgtctg gtgtgtgtac cttggatttc tttctacatc ttcctggggg ggcatgaat 300

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tgtgtttttg ttt 373

<210> 33556

<211> 446

<212> DNA

<213> Zea mays

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<400> 33556

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gtggaatgac tttgagattc agcacggtaa cgaagacaca ttcagggaga tgcttcgtat 180
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 gcagaaggat cagagggttaa acctggacga agcagttgac actctgaaac gtgctggcgt 300
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<210> 33557
 <211> 434
 <212> DNA
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<223> Clone ID: LIB3068-021-Q1-K1-H12

<400> 33557

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 aacccccacg agtttgtcaa ggcctactcc gcccatctca aacgctccgg caagatggag 180
 cttcctgagt gggttgacat tgtgaagact gcgaggttca aggagctccc tccttatgac 240
 cctgactggg actacatcag ggctgcatct gtagcaagga agatctactt gagacaaggc 300
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<210> 33558
 <211> 338
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-H3

<400> 33558

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 gatgctctta agaggtcttc tagacgatgt ctgcttcgc accaccgacg gcagatacag 180

acacgcccgt cacacgacat cgactaatcg aatatgattc ccaagagctt tggcccttgt 240
 ggtccaccgt tgaaatgctt gtacttcctt attaaagaca ccttccttcc gggatggcgc 300
 ttcaacgacc tgggtggacaa gggcttcgcc gactggca 338

<210> 33559
 <211> 418
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-021-Q1-K1-F12
 <400> 33559

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<210> 33560
 <211> 309
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3068-021-Q1-K1-H7
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 caccaagccc cgtaatcctt gcgacgatgc tcttcgtcgc tcttcttgtc gctgnctgct 120
 tcggcgccac cgccgccagg tccagccacg cccgccacac cgacgccgac gacgcgattc 180
 gtctccccag cagctttggc gctggtggtc gaccgtggaa ttgctgagac tccgctatca 240
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 gccaggact 309

<210> 33561
 <211> 320
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-H8

<400> 33561

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 agcaatcatc acttccggag atccgattta cactccatcc gaccagccta cttctgagga 120
 tcaagaagcg acatgaattt taactcttga gtgccatcag cccaatatac ctgatgttac 180
 tgttatgaca cctgtagctt gaaactacta tagtctaatt gattgatacg tcatgctttc 240
 acagctcgct ttacaactgg acattcatat cttacaagct tctatccatt tagtccgcaa 300
 ccgatttatg gtacagatca 320

<210> 33562
 <211> 323
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-A10

<400> 33562

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 tccgcttccc ttaaggcacc ggttgtctcc ggaacaaaac tctcttataa acaagatttt 180
 ttaatccaac caaatgccta ttggtgctac actgtattct gatatgccac ttaatgacac 240
 tggcttccac atattgactc atgaaaaata ggttctctat ggaaaagaaa cactcctagg 300
 aaaatatgaa gtccttatca taa 323

<210> 33563
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-C12

<400> 33563

aaggaaca

368

<210> 33566
<211> 260
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-C4

<400> 33566

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atgacggagt ccctggtgcg gaacaagccg gggatggcca gcatcaagga gatgccggtg 120
ctgcaggacg ggccgaccgc gggcggtttt gcgcccgtgc gctacgcgcg cccgatttcc 180
aacttggggc ccagcggcaa ttggcatttt cttaacggcc ttgggggctt tggggattgg 240
aatgtcccag gtcggcaagg 260

<210> 33567
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-C7

<400> 33567

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ccgcccacca atccgtcacc aaggccatcg acaaggccgg cggcatgctc ctgctgacgt 120
cgctgctcgg accgtttacg tcccacgcg tggggaccga tgcggtcgcc attcttgtca 180
gcggtgtgac gcttgacgt gacacgaagg ccgcgctcat gcagccggcg aaggtgtcgc 240
tcgtggtcga catgctcaac gagggcgcg cggaacccat gatcaactg 289

<210> 33568
<211> 380
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-021-Q1-K1-D1

<400> 33568

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tgcaggccgc tctgggtcatg ggcgtcttcg ccgctttggc taaagaaaat gccctggttg 120
agagcaaggc catcgacatc aaccgggggc agctcaagtg ctgcaccaac tgcaacttct 180
ccttctcggg gctctacacc tgcgacgacg tcaaaaagga ctgcgacccc gtctgcaaga 240
agtgcgtcgt cgccgtgcac gcctnctact cgggcaacaa caagttcagg tgcaccgaca 300
ccttncttcg catgtgcccg cccaagtgct agatcagaga ggaaagacgc gcgctgctgc 360
tagctgctat agcttcgttc 380

<210> 33569
<211> 444
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-021-Q1-K1-D10
<400> 33569

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tgacaagcat ctcttcacct ataataaggt agaggcaggg aggagagaag acgacatcaa 120
gaggggaacg gggatgagtt gcgggtttac ctctgctgtg atatattgta ggtgccacta 180
tgtgtattgt tccccctat ctactacgtg gcatagggtg tattctagta tgttgaaagc 240
tcatggtgcc gtgctgtatc aataaggtgt tatgcgcata gagtggctca ggaccagggc 300
tgcgtttgcg ctttgccact ggctgtgttg tatgtttctt ctgctgctat gccattaggg 360
tttagggatg gtgtgtggat ggcgtcgtgc ttgtagtgtt agctggattt gaagcggact 420
acatgtaggt ttgttcaatg tcta 444

<210> 33570
<211> 221
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-021-Q1-K1-D11
<400> 33570

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tcttatctca tttatcacca atcgcgccgt taccgcattt cgacaacacc acgacggagt 120
gcatctagct ccacataggc caggccgtaa ttcagctctg aaacacatgc tgtgagctag 180

ctctgtatcg agcatggcat tcaagctgat ggtcaaattc c

221

<210> 33571
<211> 240
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-D4

<400> 33571

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gtcgcgaggc agggacgcga gctgcagcgg tacagccaga gcaccggcgg gcgcatcgtg 180
gtgggctgca tcccgtaccg cgtgcggtgc gacggcgaag ctgaggtgct ggcgatcacg 240

<210> 33572
<211> 179
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-D5

<400> 33572

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cggacgcgtg cgcaagcgtc agcacgcgtg gctgectccg tgctatctat acgctgacga 120
tacttccta cgccaggcac gccaaagatga atcttgacag gttccttatg aatctgaac 179

<210> 33573
<211> 198
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-D6

<400> 33573

gccacgcgtg cgcccacgcg tccgtccaca cgtgcgcaca cgcgttggtg cacgcgtgcg 60
tagagaacaa ctaaggatcat gggcgtcttc cccgatttgg ctaaataaaa tgccctgttt 120
gatagcaagg acatcgacat caaccgcgtg cagcttaaga gctgcaccaa cttcaacttg 180
tccttcatgg agctctac 198

<210> 33574
<211> 264
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-021-Q1-K1-D7

<400> 33574

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agcccggccg ctcccttggt cctgcccctc cgttggtctc ctttgcccat ctcatcctct 120
ctctctctct cctctctctt ctctctggcg gtcggcggtg ctccgggggc gcgaagcgcg 180
ggcttcgcgg ggcgactcng ccgcngcgac ctgcanngtt ggtatgaaag gggtcaccca 240
cgcggcgcga accacaagcg cccc 264

<210> 33575
<211> 144
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-D8

<400> 33575

cggacgcgtg ggcggacgcg tgggcggacg cttggtcaga cgcgtgggcg tggcaatgag 60
gggcatcttg gatgccctac tagcgtggcc ggcgaggcgg ttgtgttcac ggtggtgaac 120
cagtgccgag ttcacctgtt gggc 144

<210> 33576
<211> 127
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-D9

<400> 33576

aaaacaaaaa aaaaaataat aaacacaaat attaaaaaca aaaataaaac aataaaca 60
gcagacaatt caaaaattct ctttatacaa aaaattatta aaaaaattaa taaaattcac 120
taataaa 127

<210> 33577
 <211> 346
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-021-Q1-K1-E1

 <400> 33577

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 tgtcagtgcac ctattcttgg ttggactgtt ctaccatctg tataaccaga ttgctacaaa 120
 caccttggag cgagtggctc ctctgacaca tgctgtcggc aatgtgttga aacgtgtttt 180
 cgtcatcggg ttctcaatca ttgtttttgg caacaaaatt agcacacaaa ctggaattgg 240
 cacgtgcatt gccatagctg gtgttgctat gtactcttac attaaggcta agattgaaga 300
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<210> 33578
 <211> 302
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-021-Q1-K1-C1

 <400> 33578

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 gtgcggccaa tctcttccga gagtgaggca agtatcgact tggacgatgt tctatctgct 120
 gctcagacag ctgctgaatc agcggagcga gctgcgtccg cagcccgcgc cgctgcgaac 180
 cttgtgcagc tacgcattgc agacctaaag aagaattcaa gggctctataa caagtacacc 240
 gacagtgctc aaaaggaaag ccctcatcat gccgagggtg cacagnaacc agtatttgat 300
 ca 302

<210> 33579
 <211> 440
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-021-Q1-K1-E12

 <400> 33579

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 aatgctccct gctaggctca gtgttgcca tctgttgcg tgcctcgga acctccctgt 120
 tctttggtgg cctgactaac cttggaactg agcagctatg cgacaaattg catgtacatg 180
 tcagcacagg acttctgatt cttggtgtgc tatgcaactc tgtgccactg atgctgagat 240
 atgctgtgag ctctggagag cagcgagaat tctctcgga ttcaggactg gagctgtccc 300
 tagcatgcag cattgtcatg ctcttgccct atgtaatcta ccttttcttg caactgaaaa 360
 cccaccagca actatttgaa cgccaaccgc aagagggtga agatgggtgat gattcgtgtc 420
 tttaagacgt ggcactactg 440

<210> 33580
 <211> 113
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-021-Q1-K1-E2
 <400> 33580

aaggagggga aaaggaccat actgttgatt catgagatca tgctagagat ttttcctggc 60
 agggcgtgta aaactgtcga actatttgaa cgaaagtgtg aactgcagt atg 113

<210> 33581
 <211> 215
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-021-Q1-K1-E4
 <400> 33581

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 cgcaatgggc gatccaccgc ttgcgcgtcg gtaccatgtc cgctggaagc gagaggccgt 120
 acgccttctc gccctcgctc gcggtcccgc gcccttctc ccgcggctcc ggctccgctc 180
 ccaccacggc cgcgacagat agcactggga ggagc 215

<210> 33582
 <211> 251
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-E7

<400> 33582

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actagagaac aacaagcgtg aaccatggcg gacgagtacg gccgcagcgg ctacggcagg 120
tccggcgccg gcgacgacta cgacagcggc tacaacagca agtccggcac tgatgactac 180
ggccgtggcg aaggtggcta caacaagtcg ggcggcgatg acgactacgg ccgcagcggc 240
ggcgatgggt a 251

<210> 33583

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-F10

<400> 33583

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tggcgcgcgc ggccaagcta ggggatccat cagatatcca cgccggccat ggccgccgcc 120
gcctccacca cgtcgaggac caactcgcgg gtgaactact cgaacgagat ccacgacctc 180
tccaccgtgc agagcggctc cgccgtcccc acctgttctt acccggacaa gtccatcgcc 240
gacatcttcc cgccgcacct tgggaagaag gtgatctcgg aggtgggtggc gacgttcctt 300
ctggtgttcg tcacctgcgg ggcggcgctc atctacggcg aagacaacag gcgcatctcg 360
cagctggggc agtcgggtggc cggcgggctc atcgtcaccg tcatgatcta cgccaccggc 420
cacatcttcg gcgcgcacat gaaccc 446

<210> 33584

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-H6

<400> 33584

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cggggctgcc ggcgcggcg cgacgatgg cgtgtggagc atcatcacc ggcccatgtt 120

ccagagcatg ctgagccacc gcggtgacag cgggtgccag ggcgccttct acacctacga 180
 cgcctttatc gaggccgcca gcaagttccc cggcttcggc accaccggtg acgagcagac 240
 gcgcatgcgg tagctcgccg tctttcttca gtcagacgtt ccacgaaacc accggtggat 300
 ggtcgactgc tcttgatgga c 321

<210> 33585
 <211> 381
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-H9

<400> 33585

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 ttggtaccta tggtgttctt gctggcatct catttgtgtt ttgtggaaag cttagtcttg 180
 aagctttgaa ctggttatct atcaagggat tgggttggtt gtttatgcaa acagcactgc 240
 ttaaagttac tttactttca ttaggcaatg ggtaagcacc tctattggac attatagctt 300
 acgcctgttt cacttttctt ggcttgtgtt tggctgtttc tggaagaata atatgtgatt 360
 acttctacta ctttctgatg c 381

<210> 33586
 <211> 446
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-021-Q1-K1-A1

<400> 33586

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 gcagaaagag ttcaacttga ggaagcctcc atccttcac tacgatttgc ttctcttagg 120
 tttcctgacg ttaatgtgtg gccttattgg tatecctcca tcaaaggtg tcattccaca 180
 atcacccatg catacgaaga gtttggttac tctcaagcac cagatccttc gtaaccggct 240
 agtagccacc gcacggaagg gcatgagcca gaatgcaagc ctgagccact gtatggcagc 300

atgcangatg cttatcagca gatgcagaca cactggttt atcagcaaca gtctgtcaga 360
agaggcttaa atgagctcaa ggactcaaca gtccagctag cttcgagtat gggtaacatt 420
gatgcacaag tgatgagaca gtcttt 446

<210> 33587
<211> 414
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-021-Q1-K1-A10
<400> 33587

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aatttccact gtggcctccc gaaccaagcc ctctccact gctaccacct tccttcgttg 120
taccgggatt atttcgtgta aagatcacat gtgaccta gaattaaaac gtgagtcggt 180
ctagcatata ttgtgaagca cgtgctggca agtttccgtt cttggcattg ggtcaaattg 240
gggtgccctg cttccgattc cctgctgcac cgtgcctatg tagcatgtaa agttgtatat 300
gctgcgaatc gtagtacagc tatatatattg tgtgtcctaa atcttgagtg tctttttact 360
ggcttctgta aatgctcccc aactgatgta aatacaaaat tccatgttcc tcgc 414

<210> 33588
<211> 339
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-021-Q1-K1-A11
<400> 33588

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agaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaataaaaa aataaaaaat aaaaaaaaaa aaaaaaaaaa aaagttggac 180
acttttttaa atcgaaatgt tatttcaata gattgacaat atctaacttt ttaaattgggt 240
tcaaaataat taattcaatc aggcagaaaa tataaaataa tagggactgt aaaaactgtg 300
tatttaacaa ttctaaagtc tttatgtcaa atttcattt 339

<210> 33589

<211> 445
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-021-Q1-K1-A12

 <400> 33589

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 gatgctccag cagttgtggc tgaagaggtc actgaaaaca tgttgggtgg taagaaagtt 180
 acagttgtat ttgttctagg tggctcctgga agtggaaaag gcacacagtg tgccaacatt 240
 gtggaacact ttggattcac ccatcttagt gctggagatc ttttgcgtgc agagattaaa 300
 tctggctctg agaatggaac catgattgaa aacatgataa aggatggaaa gattgttcca 360
 tcagaggtga ctataaagct gttgcaagag gcaatgataa aaaatgaaaa tgacaaattc 420
 ctgatcgacg gattttcaag gaatg 445

<210> 33590
 <211> 190
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-021-Q1-K1-A3

 <400> 33590

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 agacatcaag tttagggagg gaatatgcat gtactctctc tttcccaccc caaataagtc 120
 ttcttcatct catatttcga taaatcaaac aatctcaatt ttgatcta atatacac 180
 acaacacatt 190

<210> 33591
 <211> 131
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-021-Q1-K1-A4

 <400> 33591

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caaggatccg cgtagaagga ttactgcagc tcaagcttta agtcatccat ggatcagaaa 120
 ttataatgac a 131

<210> 33592
 <211> 340
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-021-Q1-K1-A5

<400> 33592

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 tgcttcgtcg gcggcctcgc ctgggccacg gacgaccact ccctccacaa cgccttcagc 180
 acctacggcg aggtcctcga gtccaagatc atcctcgatc gggagacgca gaggtcccgc 240
 ggcttcggct tcgtcacctt ctccacggag gaagcgatgc ggaacgccat cgagggcatg 300
 aacggcaagg agctggacgg ncgcaacatc accgtcaacg 340

<210> 33593
 <211> 197
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-A6

<400> 33593

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 caatgcatat ttttgtggct gaagcagatt tctgtaccta attaggtttg cacacctgtg 180
 cacttgaaaa gattcac 197

<210> 33594
 <211> 267
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-A8

<400> 33594

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acgtgcgtta tcttttaaca gatgtgccgc ccagccaaa ctccccacct gacaatgtct 120
tccgcccgga tccgccccgc gaggtgcggc cttggagcca aaaagaaggg ccgttccccg 180
cttccaacc acggaataa gtaaataacg gttaaaggaa tggcatttca cttgcccccc 240
gaggcttcca cttatcctac acctctc 267

<210> 33595
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-B10

<400> 33595

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cgatgactgc ttctgcagct gctgggtgtg agatgggtggc tgcacgccct tgcatttcgg 180
cctcgccagg aattcttacc gcacgggtag cagtttctag gactgattgc atgctcagta 240
ccactgctac attccccaaa atcagctgct cctggcctct aaggtttaag cgcaatgatg 300
ttgttgtaag agcaatatcg gaagagtgtg gcccgccagg gcttcccatt gatctcagag 360
gtaaaagggc attcattgct ggagttgctg a 391

<210> 33596
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-B11

<400> 33596

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ggctggcccc gccggcctga gcagatcatc ggaaggcaca ccgagctctt gccagctgcc 120
tccactccac ccaatggcga tgccgagggc ggagtcactc cgcttactgg gcctgctgaa 180
gcagcccag tccgacgccg gcgccccatt cgagctcgac gagcgcgacg tgggtgtgtcc 240
ggcgtgcggt gggcagcaag acggttgtgc cgccccgctt acgccgaggt gtcattgcgca 300

cgccgtgccg ctgtacatct taggactgt

329

<210> 33597

<211> 269

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-B12

<400> 33597

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ccacaaaata atcttccact gtgaagagct tgagcgtggc cttgtatcat ggcagctttt 120

cgccctcgttg tacatagtct agtttctcat cactgtttta gattcagcac agaaatgcag 180

ctgccgtctg cactgactgtt gcagctatga agctgtatgt accttactgt tgggtgacta 240

ttttagttat tgctaatacac aggggatac 269

<210> 33598

<211> 312

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-021-Q1-K1-B3

<400> 33598

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tcattgctgaa ccaggcttta gttctgctag cagtctgtcc agtttcaata actacgttta 180

tttggttgata gcatttccat tcatttttctg gtatcatgcc ttgggtttctt gttcaaaaata 240

atatggtttg cttgcatgaa gtacatgtag tgacagtnac tagtaagagt taaaccatgt 300

gagtattttt ta 312

<210> 33599

<211> 240

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-B4

<400> 33599

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tgggtgaggg acttggctct aaagctcgcc atactcttga tactctgcca cctattgatt 120
acttcgtagc tcaaaagtac acgtatcttt aactcgtgct tacacacaat ggggttacgc 180
atgtcaagat caaccgtatt tttaaatcac catctttgag aaaacggttg aaattatttt 240

<210> 33600

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-B5

<400> 33600

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gtctgaagct ggggagtcca atgtgtttcg ccaggaaaaa gatgctgcag tagatggggc 120
accatctgac actgatggag cagtggctga gaccgagag gaagaaacga cagagaatgt 180
tggtgaagcg acatttagct atgaccgctt gatatctaaa tctaccgatc cagtccgtgg 240
gatagattac aaacgcagag aggcatactt atcagatagt gagttccaaa gtgttttttg 300
catgaccaag gatgcattct accgaca 327

<210> 33601

<211> 301

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-H11

<400> 33601

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ttggtacctt tggtgttctt gctggcatct cattgggtct ttgtggaaag tttagtactg 180
aagctttgaa ctgtttatgt atcaagggat tggttggttg gtttatgcat acagcactgc 240
tttaagttac tatactttca ttactcaatg tggaagctcc tttattggac attatagctt 300
a 301

<210> 33602
 <211> 89
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-021-Q1-K1-B6

 <400> 33602

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 cgaccccg gc tacctac act tcaagccct 89

<210> 33603
 <211> 285
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-021-Q1-K1-B7

 <400> 33603

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 ccgccgac gt ctctgggtcca acgggcccga gacggcgctc gccacgctgc aggacaagca 120
 gtgcgccggc aaggccttcg tcgtgctcat cgcgcgcctt ctgcgcgccg agctctttct 180
 ncgctacgac tnccttcgacg tncaggtcgg cgctccggg ctggggtcgt cggtcacccat 240
 cacctcgtc aagaaagcca ccttctgang tatgagctct gatcg 285

<210> 33604
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-021-Q1-K1-B9

 <400> 33604

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 tagggaacta gattagctta gctacctatc taatttattg tagaaattcc gggatccgcg 180
 attggacatg gaaaatagaa aaactttttc ttgggttaaag gaacagatga ttcgatcgat 240
 ttctgtatcg atcatgatat acgtaataac tcgcacatct atttcaaacg catatcccat 300

ttttgcgcag cagggttatg aaaacccgcg ggaagcaact ggacgaattg tatgtgccaa 360
 ttgccattta actaataagc ctgtggatat tgaagttccc caagcagtgc tttctgatac 420
 t 421

<210> 33605
 <211> 245
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-020-Q1-K1-E10
 <400> 33605

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 ggggtacttta ttacataccg tggagacatt aaccatgttt attcatctct ctacatgctc 120
 gtatagattt tcgaaatata aaaccacttc ttaattccat tcactacacc accatctttt 180
 actacctcaa actttttccac atctctatca ctactaccac ctttatattc aactttcata 240
 ctgtc 245

<210> 33606
 <211> 419
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-020-Q1-K1-E2
 <400> 33606

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 aggaccgggt cggctactac aagaggtact gcggtatgct cggagtgggg tacggggaca 180
 acatggcatg cgggagccag aagccttacg gaggatgatg acactagtag ctgatctatg 240
 gttgctgcaa tgcaagcctt cacgtgtgtt tgcctctcta cctaaagaat aaatcaagct 300
 agcagcaaac ctaccttcgg cgtgtgtcta cttgcttata atagtgtgtg tccgtgtatg 360
 agagatgatg tactgtcacg aactcacgtg tgtatgagag aggattcatg gtaagacta 419

<210> 33607
 <211> 93

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-020-Q1-K1-E7

 <400> 33607

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 gtgggggttg ccttcctcat ggagatgata gtc 93

<210> 33608
 <211> 446
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-020-Q1-K1-E9

 <400> 33608

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 cgcataatatt acagttacct tgcagttctc gtactctgca gtcattttct cactgtctgt 120
 taaaaagtac ggagagatgt aaccacggtc aaattgcatt cctccacaa catagagaaa 180
 gttctcagaa ctcttccctt cttcaagggt gacaacgcc ttccgaccga cttgctcat 240
 ggctctgct atcatgttac caatttcata gttgttgcca gcactaactg cagcaacatc 300
 tgcaagctca ctatcttcaa cctccttaga caacttcctt agttcttcaa ctagtgtttt 360
 agctgttttc tcaataccac gagtaatctg aacaggatta gcaccagctg ccacgacctg 420
 gacaagacag ttttttagctg aaaaca 446

<210> 33609
 <211> 55
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-020-Q1-K1-F1

 <400> 33609

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<210> 33610
 <211> 217
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-F11

<400> 33610

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cggcgcatat caaccactca aacactcaaa caatcaaaaa ataatatatta taaccaaaaa 120
caatacccat tatcactgct cttcttgctt tcaccctact tgtctaacat attatctatt 180
actataccaa tataaataacc tctacctcca aatactt 217

<210> 33611

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-F2

<400> 33611

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agaccagcgc tgggtgctgc aagccgacca ccggcgtctc gccggcgcg c gacttctaca 180
taacgggctt caccgtcctt aacgcgacca ccgacgctgc agtgactgga tgcagcaaca 240
aagttcctta cgaccctaac ctgattaccg gcatccaagg cctgaatcag tactggagca 300
acatcagggtg ccccagcaac aacgggcaga gcagctggaa gaacgcctgg aagaaggccg 360
gcgcctgctc cggcctcagc gagaaagact acttcgagac t 401

<210> 33612

<211> 272

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-F3

<400> 33612

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ggccgttccc ggtccgtccc ccggccggca cgcggcggcc cgctctcgcc gcacgagcag 120
ctcgagcatt ccgccagcag ccgacgggtt cggggccggg acccccagc ccaaccctca 180
gagccaatcc ttttcccgaa gttactgac cgttttgtcg acttcctttg cctacattgt 240

ttcattgtcc attaggtagt tcactttgta ta

272

<210> 33613

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-F4

<400> 33613

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gatatggact taatttaaata gctcgcatgt caagatggat attgagcttc tgtaaattag 120

agaacaggat aatctctgtt gagcgcatct atcaatattg caggcttcct agtgaagcac 180

cattgattat tgagaactgc cgtccaccat catcatggcc tcagaatgga aacattgaac 240

tgattgatct caaggccgc tacaaggacg atctaccatt agttcttcat ggtgtaagtt 300

gtatgtttcc tggcgggaaa aagattggga ttgtatggcg tactggaagc ggtaaactta 360

ctcttattca ggcccttttc cgtctaattg 390

<210> 33614

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-F8

<400> 33614

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ggtggacgac ggtggagacg agggacggcg cgaagctgaa cgtgcggtg ttcaagcccc 120

ccgcgtacgg aacgggggtt gagccggagc cgaggaggga cgtggcggtg gtgctggtgc 180

atccctacac catctcggc ggcgctcagg gcctgctgcg ggggatggcg gagggcgtct 240

cgcgggcggg ttacaccgcc gtcaccttcg acatgcgcgg cgcgggcccg tccacggggc 300

gggcgtcgct caagggtcc accgaagtcg gggacgtcgt cggcgtctgc cgatgggtcg 360

cagagaacat caagccgcgc ggcatacttc tcgtcggatc ctcaactgga gcaccaattg 420

ccggatctgc aatttgataa gtggatgaag tgattggtta 460

<210> 33615
 <211> 222
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-020-Q1-K1-F9

 <400> 33615

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 aagaaaaatt ataaaaaaat taaacactaa aaaaaaataa aaataaaata aatataaata 120
 caacacacac attaacatac aaattattac tttcaccata taaataatct catattatct 180
 taatcatatt actaatataa atattctctt ccatttaatt ac 222

<210> 33616
 <211> 186
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-020-Q1-K1-G10

 <400> 33616

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 gtgatagcca taaaaacaaa ggtcgccaaa tcgcaaatca tattctattc ttccacctca 120
 acactatctc caatatccct tcaatctcct ttataactta tcattctaatt cctttcctta 180
 tttctt 186

<210> 33617
 <211> 377
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-020-Q1-K1-G11

 <400> 33617

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 agagtggaaa taaaaaaaaa agagaaggga aatggcaaag gataattcga ttcttcgacc 120
 tcaacacggg cgccaagatc ccttcagtcg gcttggaac ttggcattct gatcctgtcc 180
 ttgttgctga agccgtcgcg gctggccatc aaggttggtt accgccacat tgattgtgct 240
 caaatctatg gcaatgagaa ggagattggc tctttgttga agaattctgtt tgaggagggt 300

gtagtgtagc gcgaggattt gtggattaca tctaaactct ggaatactga tcatgcttca 360
 taagatgtac cactggc 377

<210> 33618
 <211> 231
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-G4

<400> 33618

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 tttcttttct atcgtgtcgc ctaatctaata ttcactgccc tcttcgttta cttcggtaac 180
 ccctgtattg tcccttgctt tgccccatct tattcgtttc gcttcccatc c 231

<210> 33619
 <211> 277
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-G7

<400> 33619

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 ttgtagggtt taaaaaaaca caagaaaaat gatataaaaa gggctcaccg ttctacagca 120
 tccaagtttt ctaacacatg ttcaaaaccc aatgaatttt tccaacctga caccgaattt 180
 caactgaatg ggccccgata aacacggcct ggattctaaa aaccgtggca ttgccccact 240
 taatcccctt ggagtaaata ccctatcgtc aaatttg 277

<210> 33620
 <211> 244
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-D9

<400> 33620

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 tggatcgta taccctaaatc gattctctag cagcaaatct atgtgatgtt gtgacacata 180
 tacctactgt cgataaagtt gccatagcca atgcaaatct tcaacaccca taactccatc 240
 ttca 244

<210> 33621
 <211> 453
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-G8

<400> 33621

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 tggacaacct gcccttttgt acatcggtgcc cttcactctt ggcaccttga tcgcgcttgg 180
 atggaagaga ggggagctgc agaacctgtg ggcgagggga gagccagaga gagtgtgcac 240
 gcatatgcat atgccgctgc tgccgacgac cccaaactaa ccacagggtc agtagaaaat 300
 cagcaagggt tcctagcttc tgcaaaatat tgtatttgcc tgctggtaat atgcaaacca 360
 aattaatgcc agttttaaata gaggcacctg cttcttggag accgcaaagt ctgattgtga 420
 gctaactgct tgccaatgtg ccttcattca tgt 453

<210> 33622
 <211> 354
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-G9

<400> 33622

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 aagaccaccg cacacatccc tatatgcggc tctctaactt gcgatgggtca ttatgtcctt 180
 gtgaatcaat tccacgggtg gccatcaat gatcattacc gatacatcta ttgtactcaa 240
 atgtatgcgt atgagaactt gataacctct tcgtttgaca atctgttcca ggctcggtata 300

tcgtaaccgg aggatctgtg gattacatct aaactctgga atacttgatc atgc 354

<210> 33623
<211> 270
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-H10

<400> 33623

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gtgaggatca agctgatgag gaggatgatt ctccaatatg tctcgttgaa tacgacacag 120
aaaatgcaca ttcggtcacc tactgccagc atcattggca tctctggtgc atactctcat 180
ggatggacag gcgcgtgaca tgcccagtct gtgaccagat aactctgaca gacaggatgt 240
acgaatagca ctctaggctg atgactctgc 270

<210> 33624
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-B7

<400> 33624

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gacttgatg acatgatcga ttgtggattt gcctatccat cattttacat agtaatgaaa 180
atgctcttgg cttgacatac tatgttctat tcgtactgaa ccgaattttc gctgggttgt 240
atgtgagtaa agtagatagt acacgatgga cctcgatagg acataatttc tttttgatct 300
agggaaagaa tctatgggta gtgaaaacta atatattagg ccaactttgt aagtctattc 360
ttaatatata aatcaaaagg ttaaaata 388

<210> 33625
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-B9

<400> 33625

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tttttctttt agtttttggtt attatttcgc attcttttta ctttttcaat tcttcaaaaa 180
ttctctcgac tgaattcacg tcagaacacg gaatcataaa gatcaatttt ttgcatcggt 240
tttattaaaa tttgtttgct aacaaaacat agaaataaaa accaaaaaat tgaaattcct 300
tatccgtttt ggcgaattga actgcttggt caattgtgtt tgttgaattc tatgcttatg 360
gaacctcttt tgtactatga tattcttatt cttcttggt 399

<210> 33626

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-C10

<400> 33626

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agtccacggg agggaaggct cccaggaagc agcttgccac caaggctgac cgtaagtctg 180
ccccaccac tgggtggagtg aagaagcctc accgttaccg tcctggaact gttgccctcc 240
gtgagatccg caagtatcag aagagcactg agctgctgat caggaagctg cccttccaga 300
ggctcggcag ggaaattgca caggactttc aaaactgatt tgcgtttcca gagccatgcg 360
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<210> 33627

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-C11

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cggagctaata ggcactggcc gttggggcgc atacgcccta acatggatcg aatcgttcgg 120

taagcagaag ctccatatgc tagattggat tctcacttaa aggcataatat atctaatacc 180
tctcacagga gctacgcacc actttatgtt gaatctagcg cgatgaccaa tagtgtgaat 240
caactgttgc tatgagacta cgtggaatca cta 273

<210> 33628
<211> 422
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-020-Q1-K1-C2
<400> 33628

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ttatctggcg aaactgctca tggaaagtat ccactaaagg cagtcaaggt gatgcacact 180
gtggcactca gaacagaatc cagcctttat aacccaacta cttctcctag tcttgttgca 240
tctgcacagg gtctacagaa tgaggacttc tccgcaagcc agctaagtaa aatgttctga 300
tctcatgcat cgatgatggc caacaccctt cgcacaccaa tcattgtatt tacacagaca 360
ggctccatgg ctgttctcct gagccactat ccgtccttgt ctacactatt tgcatttaca 420
aa 422

<210> 33629
<211> 455
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-020-Q1-K1-C3
<400> 33629

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cgctgaagta ttgatcgaga tccaggatac actcaagtca ccaccaccgg agaacaggac 180
gatgaagaag gcagcaatgt acgggatcgg agccaccacc atcttctaca tctccgtcgg 240
ctgcgctggg tacgcccggt tcgggttcgaa tgctccgggc aacatcttgg cggcaggcgg 300
tctgggtccc ttgtggctcg tcgacattgc caacatgtgc ctcatcctcc acctgatcgg 360

tgcataccat gtatacgctc agcctgtctt cgctattggt gagaggtggg ccgtctcagc 420
 ggggccagaa gcccaagtca tgagcagcgc ataca 455

<210> 33630
 <211> 134
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-C4

<400> 33630

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 aaggattcta ttaaatacaag aacggcaaca ataaaaagct tctcgactt tcccaccgtt 120
 tctcctccct ttgg 134

<210> 33631
 <211> 398
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-C6

<400> 33631

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 ctccgccgtt tgggtgggtc cgcgccttgg ccgcgcgggt tggatccgag ctccgtgcag 180
 cagctccgcc gcgatacgta tcgcatagga ttccactgga ttcagctgct gagcagggta 240
 ctggaagggtg gatttgatac tagctctgaa cagccagtag aatttctcaa atactgtcca 300
 ggatcatggc ttctctctgt gatttctgtg ggaaacaaaa gtcaatgatc tactgcagat 360
 cagatgcggc atcattgggc ttatcatgcg accgtaat 398

<210> 33632
 <211> 103
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-C8

<400> 33632

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<210> 33633
 <211> 334
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-C9

<400> 33633

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 atgccagaat atttatatgt ctcatttcat ttccttgtga agggatatta tcttaaagct 180
 ggaatatggg atattcatca tattatgttt aatctagggt gacccttgat atgaaataaa 240
 tcatattgtc aggagaatac ttgtgtgcac cccatcctc tgacctagat gtgttactca 300
 tttctgacct tgctcagaat aaaaaattct tacc 334

<210> 33634
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-D1

<400> 33634

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 agttgagggg caagaagaaa gaaaatggga ctttgaaatt ggcagctccg aaggaaggaa 180
 agaaggggat gcttgagctt gatgcataga tttttgaggt tgctccttct ttgctcttag 240
 ttgagttgaa aaaaaccaat ggggacacgc tggagtatca aaagctagtg aaagaggaga 300
 taaggccggc actgaaggat attgtttggg tttggcaaga tgatcaacac cagtgtcac 360
 aatcaccaga gtctctatta tcaccaccg agacacaaga tgaatt 406

<210> 33635
 <211> 391

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-020-Q1-K1-D2

 <400> 33635

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 aagcatcggg aagcagtgga aggaatttct ggattacaag gactccattg gattcattgt 120
 tcatgacgat gcaaagaaga tggacaaggg actgaagaac cgttacacgg tttgatccca 180
 aagagtagta gcatgtaggg tggttctatc cgattccgta gcaccttgca gagtgtgttg 240
 aaggttctct atttgctgag gagttgctta agcataatct aacatgatgt cgaatgtatt 300
 cctgtatgtt ccatatgtca gtcacctagg tgttggtttt gtctcagcgc tgtgtgctat 360
 atatatatat atatatatat atatattgga t 391

<210> 33636
 <211> 445
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-020-Q1-K1-D3

 <400> 33636

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 ggccgctgcc gaagtggcga tgcagattct cccgcagcag cagcagcagc agccgccgcc 120
 gtcgcagccg cgggaaccgg cggtagcgcc cccgaacctc tccgtgccga gagtgcacca 180
 gtatctgtac ctcttgagcg cgtgggtcgc ctgcgcgggc gtggctgccg ggaccgtggc 240
 gcgcggggcc ttggggcact cttccccgtt ggtctacggg ttctcaaag tctcgatcgg 300
 agccctcggt ttaccgcgc tgctcactct cgtcttcgcc ctgcgggtct tgcgcgcat 360
 gcttgcggtg gggttcagac ggtcactccg cactcacgcc agggagattc agatccatgc 420
 cacgaagatt ttagagcggt aacgt 445

<210> 33637
 <211> 458
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3068-020-Q1-K1-D5

<400> 33637

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gactccaaaa gacatagttg atggtttacc caatctaaat cttgccttcg tggctcatat 120
tttccaaaaa agaaatgggt tgtccaaaca aatgaaacaa gtttcctttg tggatggact 180
ctctgatgat gctcaagttt ccaggaaga aaggtcattc cggctgtgga ttaacagcct 240
tggaatttca acttacatca acaatgtgtt tgaagacctt agaaatggat gggttctcct 300
tgaggtgatt gacaagattg ctccaggctc agttaattgg aagatggcaa atcgcccacc 360
aatcaaatta ccattcagga aagttgaaaa ctgcaatcaa gttttgaaga ttggaaaaga 420
actaaaattt tctttggtga atattgctgg anatgata 458

<210> 33638

<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-D8

<400> 33638

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cggactgcaa tagacttcat tgtgggttta ccctaactaa tatcttgcca ttcgtggctc 120
atattctcca gaagagatat ggcatgatca agcaaagtga acaagtattc ctttttggat 180
ggactctctg atgatgctca ctttttcaag gttgaaaagt catttctgct gttgattatc 240
tggtttttat tttcactttc tataacattg tgtttagaag acctttt 287

<210> 33639

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-B6

<400> 33639

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aaattagagg aatgttatgg taaaacttcg tttaaaacga tgtggtagaa agcaacgtgc 120

gacttgaagg acatgatcga ttgtggattt gcctatccat cattttccat agtaatgaaa 180
atgctcttgg ctgcacatag tctgttctat tcgtcccgaa ccgaattttc gctgggttgt 240
ttgtaagtaa agtaaatagt acacgatgga gctcgagagg acagaatttc tttttgatca 300
agggaaagaa tctaggggta gtgaaaacta ataaattagg ccaactttgt cagtctatcc 360
ttaatataga aatcaaaagg ttaaaataag aaaaagtcta atttttggaa gattggaaaa 420
acttttttga tgaaaagtct atcttgatca attgttcata 460

<210> 33640
<211> 302
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-H5

<400> 33640

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accagctgac cggcaggatg cccgacgacg tgctgcaggg acagttccgg gcggtagcac 120
tgtcgtccaa acagctgacg gtcccaaccc cgctcgacta cgctctcgac gagatcaact 180
ctgtagacct ctcccacagc tagctgacgg gcgaccgctc ctaccagttc gacgtcgggc 240
ggaccagtac tcatggacga cctgtcgtgt aactacctgg actttgacct gatccatctg 300
gt 302

<210> 33641
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-H6

<400> 33641

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cacgagacag caactgcgtg aacttgccat gttgaattcg ccactccgag aggagagtcc 120
acgttcaggc ggtgtccta caagttcctt cagtaagact gtctccggtg ggcctaataa 180
aacaggggac acagaattgt agatgacact gtttatcact ggttgaagag agaagtttga 240
aatacgggat ctactggaga tagcctaact gcggcatgaa aagagtgaaa caatgacacc 300

cattcctcca tcatgatcct tcggcaaccc cacttagtcc atgccttcac atcctatattt 360
ccatgagcaa agctttcatg atgggtgttg tagtgtgtga catcctttta agtactagca 420
agtgaatttt gaacctccat tccatgtggc attaacc 457

<210> 33642
<211> 330
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-019-Q1-K1-H8
<400> 33642

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gcctaagcca atgtcaccgg ccctcggggc tcgaacgccc taacgcggat cagatcactc 120
tgccagcaga cgcgcccggg gctagcttgc attctgactt agacgcgtgc agtcataatc 180
cggctcacga tatcttaacg ccactggctt ttcaaccaag cgcgataacc aactgtgtga 240
atcaacggct cctctcgtag taagctgaat tactatgtgc aagcgggtcat cacatgggac 300
ctaccaacct gtctgacgac aagtgtaaac 330

<210> 33643
<211> 53
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-019-Q1-K1-H9
<400> 33643

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<210> 33644
<211> 360
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-020-Q1-K1-A1
<400> 33644

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gggtcagttg gtgctgcagg ttctcatgat ggtggtaatg tccaaggaca agatccggaa 120

cgatctaccc ctgaaggtgg cacaaatacc aagcatgac aaggtcaaca aagttctaca 180
 ggtgctgaag gcttacaagt tcccgcttag acctaatagc ggacattggt gggttaactt 240
 ctggaaaaag tgcatttgat gctgcaaaag acattatgga agctcttatg atcaaacata 300
 cttatttagc caatgagctt gagcttttaa ctggctaaat tggatcacgg tttggtactt 360

<210> 33645
 <211> 369
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-020-Q1-K1-A10
 <400> 33645

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 gggactcata taatctggcg catgctaaca tcatatgcat ggctagtcac actgaaaatg 120
 atcatgagga cgagatcaat cccgctcatg agctcttgct tgatcactcc atgaaagaga 180
 aagacactga ccgaacagac tactacggtc tataccttga aaaccagtgc cgatttgctc 240
 tgcaagtcac cgaagctgtc ggctatgaga tggacgcaa catatacagg attaagctat 300
 atgcattggc ataataattca aaggctggac actatgatcc aaaagaattg gcgctctaca 360
 tgaggaatg 369

<210> 33646
 <211> 445
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-020-Q1-K1-A11
 <400> 33646

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 aggggtcaaa taccctgcca aataactaaca tcatatccat ggctgtgcaa attgtacggt 120
 ttgatggggt tgagatccat ggggctcatg gctacctgct tgagcaattt atgaaagata 180
 aagcgaatga ccgaacagac gaatatgggt gatcccttga gaaccgctgc cgatttgctt 240
 tggaagtgtg tgaagctggt gttaatgaca taggggaggga cagagttgga attaggctat 300
 cgccattcgc agaataattca gagtctggag actctaattc aaaagaattg gtgctttaca 360

tgatgaatgc cctcaataag tatgggtattc tttactgtca catgggggaa ccaagaatga 420
agactcgtgg agaaaaaaact gaatg 445

<210> 33647
<211> 196
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-A12

<400> 33647

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aaggagcaa atacactaaa cacatacata acatcatatc cactgatata cataattgca 120
agttttgaat actgtttaga tccatggatc tcatgtctct cctacttgag ctctttatga 180
aaaataaatc ctctga 196

<210> 33648
<211> 454
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-020-Q1-K1-A2

<400> 33648

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gttggtcaac ttcaagaagg atagggatgg ctattggaag tggtttgctg gcaacctggc 180
ctctggtggt gctgctggtg ctctctcttt gttttttgtg tactccctgg actacgcgag 240
aacaagggtg gctaatacgc cgaaggctgc caaggaggga ggtgaaaggc agttcaatgg 300
gcttgctgat gtctaccgca agacactcaa gtctgatggt attgctgggc tttaccgtgg 360
atttaacatc ttctgtgttg gaatcatttg ttatcgtggt ctgtactttg agctctatga 420
ttncatcaag ccaagttgtc ttactggcaa cctt 454

<210> 33649
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-A3

<400> 33649

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aagcacaagg agggcaaaca gaaacaccgg cggctgtcaa aaagccaggc gttcactccg 120
atgagcctat gaccagccga agacatagtc gaggatgtag acgatgatga gcgagagcgg 180
gtagagcatg taggcgacga ggcaggtcca gagcgggaac gtggtccgga agctgggtgaa 240
gagggccatg acgacgcaga ccagcaggat gatgagcacc ttcgacgaga agtcccacgt 300
caggttcttg aagtagatga gcgccatgaa cactccgagg cacagcgtgt tgttcatcgt 360
cacgccgacg tacacc 376

<210> 33650

<211> 236

<212> DNA

<213> Zea mays

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<400> 33650

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gagagggaaa aataaaaaaa ataaaaaac actataaaaa tacaagacat tactgtatct 120
attactatct atattaatat gctcactcctt ttaaatattt aatttttttt accgttattt 180
tttaatatctt acctttttctt ttatgtcact atattttaac ttattaatca tttttt 236

<210> 33651

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-A5

<400> 33651

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caatcagttg gtgctgcagg ttctcatgat ggtggtaatg tccaaggaca agatccggaa 120
cgatctaccc ctgaaggtgg cacaaatacc agccatgatc aaggtcaaca gagttctaca 180
ggtgctgagg gctcacaagt tccgcttaga cgtaatagcg gacatgggtg ggtaacttct 240

gcagcaagtg catttgatgc tgcaaaagac ataatggaag ctcttagaag caaacatact 300
aatctagcca atgagcttga gcttttactg tcagaaattg gatcacgggtt tgttactctg 360
cctgaggaaa gacttctagc tgtgggtaat gctc 394

<210> 33652
<211> 258
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-A8

<400> 33652

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gaacaggaac gctgtgaccg agctctgtat gctacatata cgacatggcc atggtcggaa 120
gcgctgttgt gtctgcgacc tacacagaat ttcggctgga aaaagcgccc gagatggaca 180
tatgacccaa tctgagccct ttcaggtgat gaaatctgca tacagtggga atccatttgt 240
cgtgggtact aactaga 258

<210> 33653
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-A9

<400> 33653

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ttgatgggggt tgagatccat ggggctcatg gctacctgct tgagcaatth atgaaagata 180
aagtgaatga ccgaacagac gaatatggtg gatcccttga gaaccgctgc cgatttgctt 240
tggaagttgt tgaagctggt gttaatgaga taggggcyga cagagttgga attaggctat 300
cgccattcgc agaattttca gagtctggag actctaattcc aaaagaattg gggctttaca 360
tgatgaatgc cctcaataag tatggtattc tttactgtca catggtgga 409

<210> 33654
<211> 439

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-020-Q1-K1-B10
 <400> 33654

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 tgttcgagag gctgctgcaa aagatgggtgc catactgggtt tgtttctacc ttaatggcga 180
 ctagcatata tgtgctattg tgcttgctat cacaagtacc tagaaaaatg agaataaaat 240
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 tgcaatgttt attaacatgt agtaccatct agtattctag tgtttattaa cgatttatat 360
 ctcttaagcc ctgggtgatta acattggctt aatttggtgt ttagtttgca taaggatgatt 420
 tttgcaacta attttgctg 439

<210> 33655
 <211> 459
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-020-Q1-K1-B3
 <400> 33655

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 ggggttgga agacttccct gatgaaccaa tatgtgaaca agaagttcag caatcagtac 180
 aaggctacga tcggcgcgga tttcctcacc aaggaggtgc agttcgagga caggctcttc 240
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 taccggggag cagattgttg tgcctagtc tatgatgtta attctatgaa atcatttgac 360
 aacctgaaca actggcgaga agagtttcta attcaggcta gccatcaga tcctgataat 420
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<210> 33656
 <211> 326
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-H4

<400> 33656

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tgacaacacc aaatttgagg atgactgccg agctattatt gggactcaat catatgtcct 180
ctttacttta gataaactga ttataaagt tgtgaagcag cttcaagcta tagcaacaga 240
tgaaatggac aataagcttc tgcaactata ttatatgaa aaatcaagat ctctgggag 300
gttctttgac ctagtttatc attgaa 326

<210> 33657

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-B4

<400> 33657

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gagatcccga tggccgtagc gccgtcgtac cctgctcaag gacatcataa ctccgcatag 120
cgaggtagag aagacttact tgatgaacca atatgtgaac aagaagttca gcattcaaga 180
catggctaca atcgacacgt atttctcac caacgaagtg caattcgagg acaggctctt 240
cactctgcaa atatgggaca ctgctggcca gtaaaggttc cagagtctcg gctcagcatt 300
ctaccgacga gtacattggt ga 322

<210> 33658

<211> 225

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-E10

<400> 33658

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tcacggttgc agctcgatca tcgccaagca gcacgtgggc atatgctcta gccttaggta 120
gtagctagac actcggacga gtaatcatca gtctattgat cgtgacaaat tgacactgcc 180

gagggttcaga cacacaccgt cgtggcgacc gactgaagcc cagtg

225

<210> 33659

<211> 213

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-E11

<400> 33659

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tgcagtttaa cagtgcaggc acatgaggat ccgatgtaat tacgtcatct gcaagctcca 180

tccagatcac acgcactcgg atcgcagttc caa 213

<210> 33660

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-E2

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attgtactct gtggatcctt gggcctaattg ctgttcgaat tgcgctgcat tctggaatgt 120

aaatacaacg aaacgtattc gtgtaaaatg aaattccaat agaataagac cggagtcttc 180

atgtcccgtt atggacggcc tgctttaata aaaatactcc gtctggcagc tttaccatga 240

ctcactataa aaacgcctac gatcctgaag taatcagaaa aacgaatttc ctttttggga 300

aaa 303

<210> 33661

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-E3

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gacgtactct gcggctacga ggaccgaatg ctctactact agagctccat gaatgcctgc 120
 tacatcatca taaactaatc gggcgagttc agctcccagt agaactaggg ctgaggatcc 180
 atgttcggtc ttgccggggg tgtcatcaaa aagatactcc gaatggcatc tgcattgattg 240
 ctcactattg agccgcctac tatatgcacc tatctgatca tgagtgtcga gtctgtcaaa 300
 atgtatgtcg cctgggggaa aagaaattta agttatatga aatgaatatg ctgttgatgt 360
 gtcaaaaaaa aattttacttt 380

<210> 33662

<211> 238

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-E4

<400> 33662

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 gcagcaccat ggccctctcc tccacggcct tcgccggcaa ggccgtgaac gtgccgtcgt 120
 cgtccgcctt cggcgaggcc cgcgtgacga tgcgcaagac ggccggcgaag gccaaagccgg 180
 cggcgggcgtc cgggagcccc tggtacggcc ccgaccgcgt gctggacctt gggccac 238

<210> 33663

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-E7

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 ggtggcggcc acggtgaact gcgcggacaa cacgggccc aagaacctct acatcatctc 120
 cgtcaagggc atcaagggcc gcctcaaccg cctcccgccc gcctgtgtcg gcgacatggc 180
 catggccacc gtaaagaagg gaaagcccga cctcaggaag aaagtgtatc ccgccgtcat 240
 cgtccgccag cgcaagccgt ggcgtcgcaa ggacgggtgc tacatgtact tcgaagataa 300
 tgctggagtg attgtgaatc ccaaggggtga gatgaaaggt tctgcaatca ctggacctat 360
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<210> 33664
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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-E8

<400> 33664

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tccctcgccg tgtaccagga cttctgcac gccgacctat ccgtcgccgc cagccgggc 180
ggctacccgt gcaaccccc gaaggacgtg accgccgacg attccacta tggcggcctc 240
gccacccccg gcacggcgct gaaacccttc aagatctccc tgggctcggc cgtcgtcacc 300
acgttccccg gcctgaacgg gctgggcac cctgccgcgc ggatggtgat ggtcccgggc 360
ggct 364

<210> 33665
<211> 204
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-E9

<400> 33665

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ggcgcaatcg gatttgggga ggcaaaagga aaattccgga gagcagttcc tttccggctc 120
cccatttcct ccg gatagat ttgggtttgt cctgcgtcga ttagtccggc gcccgaaacc 180
gcaccaatcc attcgccgag ggat 204

<210> 33666
<211> 247
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-F10

<400> 33666

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gcaagggttcg tggtttcaca tttgacatca gctgggggtgc gttggagtct ctggagcttg 120
 actctgttgg gctttctatt gttccttcta gcttggtatg cacgtactgt ttatgtgtcg 180
 aagacgtgct ggatatagtc ttctatacag tcgtgggtgca tgaagacgcc gtctcacggg 240
 ttcaacg 247

<210> 33667
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-F12

<400> 33667

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 agcacatcgc agtccggtgc cgcccggaaga acgtctgctt cctcaactgc aagaagaagg 180
 accctaattc tgagaagtgc ctgcagaagg gtcgccagga cacaagctgc gttcttagcc 240
 tgttgaaaga acttcatcaa aagtgtccca aggaaatgga tgaatatgct ggttgcatgt 300
 attactacac caacgatttc gacttctgcc gtaaggagca gcaagctatt gaggaatcct 360
 ggcccatttt cgagtagatc ttgagagctt 390

<210> 33668
 <211> 186
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-F4

<400> 33668

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 ggaggggtgcc cataggctgt agcgcgcata cgaactacta caatcattct atatagtctc 120
 ctaaataaac tacacagtgc catactttac aacaccctga ctgggaaaaa cctatacgga 180
 cccaaa 186

<210> 33669
 <211> 381

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-019-Q1-K1-F6
 <400> 33669
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 ccacgcatcc atgtcgagga ggaagaccag ggagcccaag gaggagaacg tcacccttgg 120
 acccactgtc cgtgaaggag agtatgtctt tgggtgtcact cacatctttg catccttcaa 180
 tgacaccttc attcatatca ctgatttgtc tgggagggaa actctgggtc ggatcaccgg 240
 tggcatgaag gtgaaggctg accgtgatga gtcgtcacct tacgctgcta tgcttgctgc 300
 tcaagacgtc gcacagcgct gcaaggagct tggcattact gcactgcaca ttaaacttcg 360
 tgcccaccga tgcaacagga c 381

<210> 33670
 <211> 228
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-019-Q1-K1-F9
 <400> 33670
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 gcaacgtgtt cgatcccttc tccttcgacc tctgggaccc ctttgagggc tttccctgcg 180
 gctccggcag cagcagcagt ctcttcccct cgttcccgcg gaccagct 228

<210> 33671
 <211> 295
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-019-Q1-K1-G10
 <400> 33671
 accgtgatgt caggaggcaa tcaaattgatt tcgcaggcg taatgaacca tttgtatgat 60
 gtgatgtgtg aatttagttt ctgccttccc cctgattatg cgttgatgat aagagctctt 120
 ggttctctag aagggactgc aaaagcactg gatcctgagt ttaaagttat tgatagtgc 180

tatccttttg taattgggag actccttgca taccacagcc ctgatatgag gaaaatattg 240
 cgggagcttc ttatatgtga cgatggatcc atcagatgga atcgactgga aaggc 295

<210> 33672
 <211> 83
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-G11

<400> 33672

gggcgttcgc ccacgcgtcc gaaaaaaaaa aaaaaaatg ataaattaaa agagaaaaaa 60
 agaaaaaagg ggagggtgtc aat 83

<210> 33673
 <211> 76
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-G12

<400> 33673

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 ggggaggctt gtcattg 76

<210> 33674
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-G2

<400> 33674

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 tcgaggagat tgagcagagg gttggggggcc tcaggagact ggaggaagcg agcaaggagg 180
 agcaactcac aaagtgatca cgcgggacgaa tgggatggat acgggctact catcagctct 240
 ctatctgagc ttcgttagca aataagttca gacttcttaa tttactgccc tgctcaagtc 300
 tgtatatggc caaaacccaa aacgattgat caactgcgct actgcaatgc aataacatga 360

tacgtatagt tttttttttt aagggaaca

390

<210> 33675
<211> 243
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-019-Q1-K1-D9

<400> 33675

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agagcagcgg atgagtgaga gagcggagct gctcaaggcg caagtacgtc aggcgttcga 120
tgctgccagc atggatgttg caagtctgat cacgtacgtc gacaccctcg aacgcctcgg 180
cttagacaac cacttnccgg acctcatcgg agctgccctg gaacgaattg gaagctgagg 240
agc 243

<210> 33676
<211> 100
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-G3

<400> 33676

cccacgcgtc cgataaaaaa aacaatagtc ttaatccaaa aatgcacaca aaaacaacaa 60
ggtaaattatt cattgagtag aaaggaccca tgcttaccta 100

<210> 33677
<211> 157
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-G5

<400> 33677

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cttttatcat gggagagcag gatatagttg cataaaaaaa aaaattatatt aaatttaaaa 120
tattacaata aataattata actattataa aatataa 157

<210> 33678
 <211> 271
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-019-Q1-K1-G8

 <400> 33678

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 gggcttccgg tcacccgctt tatctgacat acatgagatc caagtttctt cgtctccatt 120
 aagcaccaag aaggttgtgt actgcactta aaggatctat tgatgggtact ctgtttatgg 180
 ttgttcaggc aatgtggact cgggactttt ggttttagctt ctgatacctt atgactgatt 240
 ggaaacaaag atgtatatcc tctgtccaaa a 271

<210> 33679
 <211> 111
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-019-Q1-K1-G9

 <400> 33679

 tcccactcgt cctcccactc gtccggtcat ttgtgtaaaa aaaaaaaaaa aaaaaaaaaa 60
 aaaaaagaaa ataaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataata t 111

<210> 33680
 <211> 362
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-019-Q1-K1-H10

 <400> 33680

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 agtggcggat actcaatcaa actcataatt gtctcaatgg attcttttcc ttcttttttt 120
 tttttttctg aatattcagt taagaccatt caaaggctcc ttttcgcat gcataaacta 180
 aaccaacaac taggataagc acaaaaatga aagcttctat aaaaacggat acaccaata 240
 cgtcgaaact cattgcccaa gggtagagaa agactgtttt cacatcaaaa acaacttata 300

ctatctcata catgtaatag cgtattcaga attgtaacca atccctctct atgggttcta 360
ta 362

<210> 33681
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-H2

<400> 33681

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gaggggtgggt ctgggacacc atgggtccga tgaagctgta cggggcgggtg atgtcgtgga 120
acgtgacgag gtgcgcaacg gcgctggagg aggctggctc cgactacgag atcgtgcccc 180
tcaacttcgc caccgcccag cacaagagcc ccgagcacct cgtccgcaac ccgtttggtc 240
aggttccagc tctgcatgat ggtgacttgt acctcttcga atcacgagca atctgcaagt 300
acgctgctcg caaaaacaag ccatagct 328

<210> 33682
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-H3

<400> 33682

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cccgttcggt gatggaccgc ttccttgtct gtaccatgtt cgtggaagc tagaggccgt 120
acgccttctc gtccccgtcg gcggttcggt gccctttctc ccgctgctcc agctccgctt 180
ccaccacggt cgcgacagat agcactggga ggagctcgtt ctcccgtgcg ccgactaaga 240
gccgaaagcc accgtttctg tccgccttgg acgacacaaa gtccgtactt cgcgatccga 300
tatcacgctt cgacct 316

<210> 33683
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-A9

<400> 33683

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tcgaggagct caagaacggc cggtctcgcca tggtctccat gttcggattc ttcgtccagg 120
ccatcgtcac cgggaagggc ccgctcgaga acctcgctga ccacattgcc gaccccgta 180
acaacaacgc ttgggcctac gccaccaact tcgtccccgg caagtgatgg aggcgcgcgc 240
ggtgaccttt aagtgtccgg atgcatgtga gcgcacgctg gttttcggct tgtaccatga 300
tgtaaaactat tggtcaatcg acaaggaata attgcgttca ttgtcat 347

<210> 33684

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-B1

<400> 33684

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ggcacggcga cgtgcagggc cagcagcggc ggtggcgggtg gccggggcgg cgaaaatgat 120
ggcctccttt ggctgccccg gcgggacgtg atgctcaacg gcctgtccag tgctgcgcgc 180
gggctcgctt ggtacccggg cgctcgctcc ggcgcggatg cgggtgtgcac cagggccgac 240
aaggtgaacg agaagaccgt gcagtgcacg gacccggccg ggcagctttc gtgccctctg 300
gtgtcgtcga cggaccccggt ggactttaag ccggaaagca aggtgacgcy cattcggcag 360
ccggtgcac tcttgagccc ggag 384

<210> 33685

<211> 158

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-B2

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ttttgctgtt ttcgctatct gtattgtagt cactgtgcaa aaaaaatcgt ttgtattgat 120

tggtcgcaaa aagtgaagtg cgctattgcg ctgtgact

158

<210> 33686

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-B5

<400> 33686

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cggcggcgaa ggcaaagccg gcggcgagct ccggcagccc gtggtacggc cccgaccgcg 120

tgctctacct gggcccgctg tccggcgccg ccccgagcta cctgacgggc gagttcccg 180

gcgactacgg ctgggacacc gcggggctgt cggcgagccc ggagacgttc gccaaagaacc 240

gggagctgga ggatcatccac tcccgtctgg ccatgctggg cgcgttgggc tgcgtgttcc 300

cggagctgct cgcggcgaaac ggcgtcaagt tcggcgagge cgtgtgggtc aaggccgggt 360

cgcagatctt cagcgagggt gggctggact acctcggcaa cccgagcctg atccacgcgc 420

agagcatcct cggcatc 437

<210> 33687

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-B6

<400> 33687

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caggtgacac tagacagtca cacaagtata catcatagaa aagaagttgg acgagtataa 120

aaaataaaat gatgagttac aaaatcaacg agcaatagag tggagggaaa gtataagtca 180

aaacatatag taattgttat taggtaggca attgatcact tgaggcttag ttggtagacc 240

ccatgtaccg attgttttga cctggcatag atatatatgt gttatctgta tatcggtttc 300

acatgaatgg gaactcattg ctttggtggt tatggtgatt tagatatatg tgatatcaaa 360

aa 362

<210> 33688

<211> 227
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-019-Q1-K1-B8

 <400> 33688

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 cttctatctg agcgccggcc catatctctt gtagatgacg caaaatcaat cttctgttac 120
 tcctactctt ctcttctttt ctatcgggga tactcatttc ctgctatgca tgcacttctc 180
 tatctctcac tataatatat accatatata actttatgac tcgcata 227

<210> 33689
 <211> 370
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-019-Q1-K1-B9

 <400> 33689

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 gtggattgga tctatccggc tgcacttttag aatattttta gtattttttt tgataaataa 120
 gaaaagggtgc acgatctcga cgaattactt ctgaataact tcagaaatca tatggaagaa 180
 ccatagcatt tcgcgattca ttggtaaatt tactttgatt ctctatagac caataatgtg 240
 agaccattaa cactgttaaa gctaaactgc ttgaagtccg gtcaaaaagg ggtactcttt 300
 ctacaacttc attagtatta gtctcgaaat gctttaaatg ggaaatagct agtgtagaat 360
 tatctgatat 370

<210> 33690
 <211> 233
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-019-Q1-K1-C1

 <400> 33690

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 taggggaggt actaggagca tgtgagtccg gtattttattt gggcctttaa acgtaagccc 120

ttgactcatg catgcataca aattgatcta tactttatcgt tatctgatgg aaggagtgcc 180
 attttgtcga gttaatagat agtatcattt acccatttga attctccttt gaa 233

<210> 33691
 <211> 113
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-C10

<400> 33691

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 gtcctttcct tatctggetg cttttttcca ctcgectgct tctcctcacc ttc 113

<210> 33692
 <211> 149
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-C2

<400> 33692

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 aggttggtgt attcggtagt tgtgtttag tcaactgtgct aaacaaatat ttatgattga 120
 ttggctgcaa aaagtgaagt gcgctattg 149

<210> 33693
 <211> 447
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-C5

<400> 33693

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 cgcacgcaga aggtcgcga caaggtcgcg ctgtgcctgc ccagcgacgg caggtccacg 180
 tcgggcgaca gcggtcggcg tggccatctt cggcggcggc ccgctgttct tcgtcccgcc 240
 ggaccgcggc gacttcacca cgatgctggc cggcacgggg ccgctccacg ccggagccgg 300

agccggtgcc cccgggtact acgtctcctc caccggcatc gccgtggagc atgccccgct 360
 gggccgaccc gccggggcgc tcggcggtggc gctgagcttc acgggtcccgt acaccgcgct 420
 tccggccccga ctggtacgct ccgttcg 447

<210> 33694
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-C6

<400> 33694

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 ggggctcgct gagttaacac agtgcattaa cacattaaca agggctaagc tgaccaagtg 120
 aacacaacga ctgttctttt gacctctacc aacaactgca tgccatgcca cacggtctac 180
 acatcgaaca aaaccgcgtc ccctaacagc aaacactggt ctagtacact gtacacctct 240
 gctctcacca cagcaaaggc caagggtga ttcaccacag aagcagcaca tcttcctta 300
 cccatatgga tgttaccact cacaagtttg taccttctct gccttttttg ttcagcctgc 360
 ttaggtcaa aaattggtga aattggcata tgcatttgaa aagtctcttt gaaccatttt 420
 cttttgaaa 429

<210> 33695
 <211> 398
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-C8

<400> 33695

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 acgacgaggt gtcacacga aactgacct cgttggcctc acctacctac caatgggttat 180
 caaggaggtt cttcggtgc atcctccaaa ccctatggtg gtcccacgtg agtcgagaga 240
 ggattgcaa gttatgggt accacattcc caaaggcacc aaggtgctcg tgaacgcatt 300
 tgcgatctcc agggattcaa ggtactgtaa caaccctgaa gatttttagcc caciaagggt 360

tcagaataac aatgtggact acaaaaggac cgattttg

398

<210> 33696

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-C9

<400> 33696

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ggagcttttc tagaacactt tcattctcct cttgtagcat atcaagctca tcgtgaagtg 120

tagatgcctc tcttttcagt cctgattctc ttgagctatg aagcgctgca tcaaactctt 180

tcggtcgagt gcgatccgct ggaggctcca cagccaccgg tggaataggg gacgggtgttc 240

gcagcgactt gttggttttg attggcgtga ccactgttgt ggtgggtcgt gatgcaaca 299

<210> 33697

<211> 104

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-D1

<400> 33697

taaataaaaa aacacacaca aaaatacaaa atataaaaac taaaaataaa aaaaactaca 60

aaggaaactg acaaataaaa aagaacatat caaacaaccc tata 104

<210> 33698

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-D10

<400> 33698

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gtggaagatc tcagaagtga agacgatttt ccgacaagag cgttggaaaa tattctcaag 120

acgaaaggga taattgatga gaagaagaaa gatgacgacg atgacgatga agaaagcgag 180

gctaagaata ggagggttag gtcttcaact gctcaagact ctgacttaga ctgaacctga 240

gatgaagatc gaggactcac cgtttttgca ctttggattt tgtttgttt tttgttctgt 300
 agtgtgctga actgtactga aattgatttg tgtaaccatg ta 342

<210> 33699
 <211> 290
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-D11

<400> 33699

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 gtggatctgt aattagcact ttagcagcaa tagtaccata tgtagccga caaatgctag 120
 cggcgggggtt tgacctgaag caaaatatgc gttgtctgta ggagagggca ttgccagata 180
 gcctctgtaa ccttgactc tagttcctag actaaattaa tttgttatca tgtgtacatc 240
 agggttaagcg tgatgctgtc ttaagagatc caagtgatac caatttaaaa 290

<210> 33700
 <211> 107
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-A8

<400> 33700

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 gaacctataa aataccagtt taactgttta aggagatttg cctcatt 107

<210> 33701
 <211> 249
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-D12

<400> 33701

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 ttcgaatgaa taaattgttg cttactagaa tgaatacggg cggaattggc cattattctg 120
 tagtatcact gctcaccaat gggatataaa aaattaagtc agagtgggtga tgaccaccct 180

atcggcatta tatgaagaag agactgattc aatgggtctct gctgagaaaa ttcccgaacc 240
ccatcaata 249

<210> 33702
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-D5

<400> 33702

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cccacgcgtc cgcccacgcg tccgcccacg cgcccgccca cgcgttcgcg gacgcgtggg 120
cggacgcgtg ggcgcgctcg aaagcttgcg cgggtggcgtg ctcatggtcg cgcgcatagt 180
ggtatgccaa aagaggatgc tgggaaagtc tgcacagtgg agactgttat gtcattctgt 240
atacgtatca tttgggcgac ttgaaagaag aatactatct tagctactga attgggaagg 300
atagcttggt ggactatcaa gtgtcgcat cttaaatgac taatacaatg gggaattcat 360
tggaaggacg ggctgttggt ggctcg 385

<210> 33703
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-D6

<400> 33703

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gctggaaaca agcttgccat gcaggagttc atgatcctcc caactgggtg ctcctcgttc 120
aaggaggcca tgaagatggg agttgaggtg taccacaacc tgaagagcat aatcaagaag 180
aagtacggtc aggatgcgac aaatgttggg gatgaaggtg gttttgcacc taacattcag 240
gaaaacatag aaggccttga actattgaag gcagccatag aaaaggctgg ctacactgga 300
aagggtggtc ttggaatgga tgttgctgct tctgagttct tcggtgagaa agacaagact 360
tatgatctta atttcaagga ggagaacaac gatgggtcaa acaa 404

<210> 33704

<211> 361
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-019-Q1-K1-D7

 <400> 33704

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 gcaacacggg gctgatgggtg atcgacttct cggcgctcctg gtgcggggccc tgcctcttca 120
 tcgagccggc cttcaaggag ctggcctgcc gcttcaccga tgccatgttc atcaagggtcg 180
 acgttcacta gctctcggag gtcgcatgga catggaaggt agaggcgatg ccaacggttcg 240
 tgctgggtcaa ggatgggaag gaggtaggcc gcgtgattgg ggctaagaag gacgagcttg 300
 agaggaagat caggatgttc ggcacgtcat ttttctcgtc ctaacttatc agtgcataca 360
 c 361

<210> 33705
 <211> 202
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-018-Q1-K1-F9

 <400> 33705

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 aaaggaaaag ataaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaattaaa aaaataaaaa aaaaaaaaaa atatataata aaaaaaaaca ataaaattag 180
 acaatttttt aataatatac aa 202

<210> 33706
 <211> 343
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-018-Q1-K1-G2

 <400> 33706

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 ggccggccccg ttcagaccat aagaggggca gatccccgat cgcgaccac gcaataagca 120

acttcacctt taaaattctc ttattcgatt ttctgtcgca ggctcccact tatectactc 180
ctctgactta atttcacact cttgcactac agtcaacctc aacagcgtct tctttatcct 240
ctgattccgt caaatccatc tccttggtc tcgcctcgat ggattgtata catgcacact 300
gacaatcttc ttaatgcttt catacgcgta actcattaata tca 343

<210> 33707
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-G5

<400> 33707

gttcacgaga tgggttgcac gtttttgatg atttccgtga agcttacgca tggctgagcc 60
ataacacaga tgttgatgac aagggttgcct cctggtggga ctatggttac caaacaactg 120
caatggccaa cagaactgtg attgtagaca ataacacctg gaacaacact catatagcaa 180
cagttggtac agcaatgtcg tccccagaaa aagcagcttg ggaaatcttc aattcttttag 240
atgtcaaata tgtgcttggt gtctttggag gacttggttg ataccctagc gatgatata 300
ataagttcct ttggatggta cgaataggag gtggtgtggt ccctcacatt aaggagccag 360
attatcttag ggacggtcaa tatcgcggtg atgctcaagc tactccaact atgctgaatt 420
gcctcatgta caaacctttg tac 443

<210> 33708
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-G6

<400> 33708

cccacgcgtc cgaaaaaaaa aaaaaaaaaa atataaaaaa aaaaccaaca cataaatagg 60
cacatttaac aactcatgca tggcaaagtc aaatctcaaa tatacatata cctaccaagc 120
aatctactgg ccgtccata ttcaactact ctactctgta acacccttgc ctttccttac 180
ttaatcccat ttcaacccat ccgcctttcg ccagccaaca gcaataacta aaatacccat 240
tcctttcccc atttcaaaca ttttcgcagc ctttatagca catgctactc accctatcgc 300

taatcttcat gcgcggtct cctttccact aacttcagct tctccattac actatgtaac 360
gccctctgac cctctccttt accttcatta cttccctttt tccccacct 409

<210> 33709
<211> 251
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-G8

<400> 33709

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aaaaagaaaa aaaaaaaaaa aaggaaaaaa tataaaaaat aaaaaataa aaaaaacata 120
catactaaaa aaataaaaaa taatttactt tcaacttaaat ggaattaaat tgccgttctt 180
tttacatcca taattaatgg ttaaatectg gagtttccaa acttaattgc cttgcaatac 240
atttcatttt t 251

<210> 33710
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-H10

<400> 33710

ccaactcact ctttctacgc ctttccctct tctccttctt ctccaagaaa aagtgagcgt 60
ggagagcaaa aatctccgcc gccgcgcacc tacgcccacg gaacacgccg tcatatgagt 120
ggagagagaa ccccgcgect cctcctccgt gagctccgta caaggaggct agagcggcgg 180
cagcatcgga ggggtcgggtg aggagggcga tgggtgctccc gctggtgaag ctcggctcgc 240
tcgcgttccg gacgctgagc aagcccatcg cggtcgcct caagtacaac gccggcatcc 300
acccaagtt ccgcggtctc atcatcggca tcgcgcaggc aaaccatcgt ttcacgacaa 360
atatgcagag gcgactttac ggacgtgcga ctgacattca cattcggccc ctgaatgagg 420
agaaagctat tcaagct 437

<210> 33711
<211> 439
<212> DNA

33711-33712-33713

<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-H11

<400> 33711

tcgccaactc actctctgta cgccatctcc tttgctccat cctctacatg aaaatggggg 60
cgaggagagc aaaaatctgc gtcgccgcgc acctacgctc acggaacacg ccgtcatatg 120
agtggagaga gaacccccgcg cctgctcctt catgagctcc gtacatggag gctagagcgt 180
cggcagtatc ctaggggtca gtgaggatgg cgatgggtgt acagatgggtg aagctcggct 240
cgctcgcgtt cctgacgctg agcatgccc taccgcacg tctcaagtac aactccggca 300
tacaccccaa gttccgcagt ctcatcatcg acatctggca tgcaaaccat cgtattacga 360
caaatatgca gaggggactt tacggacgtg cgaatgacat tcacattcgg tccttgaatg 420
acgagaaagc tattcaagc 439

<210> 33712

<211> 420

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-018-Q1-K1-H2

<400> 33712

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gaaccctacc cgagcatcag ccatggcgat cgcggcgcg gcctctgcgc gcctcccgt 120
ccacctctac ccctcgtcgc ctcgctcttt ctgcgcagtt tccccggcgc cgctctcggc 180
cgccccggcg tccgcctcgg ccgccccggc gtccgccaa gtcgccgatc gcacgtgcg 240
cgtcctcgcc atcgatctcg agggggcgcg ccgcgaggtc gtcggcctct ccgggcagac 300
actcctccgc gcgctcgcca acgaggagct catcgagccg gcctnccacc gnetcgagga 360
tatcgacgcg tgctccgncg agtgcgaggt ccacatcgcg cangagtggc tcgacaagct 420

<210> 33713

<211> 453

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-018-Q1-K1-H3

<400> 33713

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ctgccggaga ctgtggaggt gacgctgcgc gccgtcggcc cgtcccgtcc aaccaccctc 120
cgctccctc cgcttctctc ggctcggcag ctgcgcggct gcatcgcgcg cgaacgccgt 180
ctagcaggca cggaagaagt tcgactccgc ttgatcctgc gggggaagac gctcccgcac 240
caagacgaca gccatgtcac tctccgcgat ggggatactc ttatagtcgc cgtggcacct 300
aagcctcctg ttaatcatct tcttgatgat gacgttgagg acgaagaaga ggatgaactg 360
aagttcagaa taccacanac gacaaccttg tggaagagga aatntntat gtttcttcga 420
gacaaaatga gattgcctga tatccatttg atg 453

<210> 33714

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-H5

<400> 33714

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ctgttccacg agagcatggg gagcctcgac gcagatttcc acgacatggc gagcgaggcc 120
ttggacgccc acgacaactt cggcatctag atagctatgc gggagttcag ggacttgttc 180
gaggggatcc agaccatgac ctactgctgc ggtaacttcg gtgatgacaa gggtgccagg 240
gccattgtca aagccttctc acacataaaa tgcactgtgc tggccctcc caagatcatt 300
gccaccaaac cggtcgatgg agcgaagact aactatgtcg aaggtgacat gttcagtttc 360
attccacctg ctcaaactgt cgtgctaaag ctagtgtgc accacctgac ctatgaggag 420
tgcgtcaagc tcctggctta atgccggaag gcgat 455

<210> 33715

<211> 77

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-H7

<400> 33715
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 gtggttctag atcgca 77

<210> 33716
 <211> 398
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-H9

<400> 33716
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 aaaggaaaag aaaaaataaa ataaaaaaaa aaaaaaaat aaataaaaaa ataataaaaa 120
 tataaaaaaa actaaccttc ttacacatt ctttctacct tattacctct atatatcttc 180
 acctttaatt taaaaaaatt gtccctatct ttacaatttt ttatctcat aaattccttt 240
 tctttcaaaa attttttttt ttctttttta tctaatttt ttcttttttc ttacatctt 300
 tttgatcat aaattaatat tcttctctat catttcttca acctcttttt ttaatttatt 360
 tttctcttat cttttcattt ttcttttttt tttttttt 398

<210> 33717
 <211> 210
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-A10

<400> 33717
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 ccagttcctg tttcagtcga tcgcagtttag catggccgct acacagagct gtcaggctgc 120
 tgcttgcttc cctgccgtcg tggctgtcga cgaggagcac ggccaccaca gccaccagct 180
 gaagggagga gcgcatgatg aggctgagaa 210

<210> 33718
 <211> 194
 <212> DNA
 <213> Zea mays

<210> 33721
<211> 129
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-A3

<400> 33721

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tcgtgcttac ataaccgcga gggacaacaa gatccatatt caagctacac agaacgtctc 120
cacagctca 129

<210> 33722
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-A6

<400> 33722

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cagctcaggc aaaccttggc catggcctcc tccaagatgc tgcgcgccgt cgtcgtcgtc 120
gcggacgtcg ccgtgtcctc cttcgcgcgc gccgtcctc gccgtcgagg cccccgcgcc 180
gagccctgcc tccggcgccg cggccctccc ctgctcgtc ttggccgcgc acctctgccc 240
ggcgtcgcg ctccctcctc gcaacctgcg ccaactgatga cgctgcctg tctcctagac 300
cgactagagc cgccgtgtgc tgtcgcgtga tggtattgtc ctctgtatgt gtgtgtgtgt 360
gttctgacc tgtgcgtgcc ttgta 385

<210> 33723
<211> 308
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-A7

<400> 33723

cccacgcgtc cgcccacgcg tgcgcccacg cgtccgcaca ggcgtccgca catgggtagg 60
gggctcaggc tatgcctagg ccatgtcctt gtccaagatg ctgcacgtcg cctgccatgg 120
agggtagtc tcacggcctg aattcgcgga ggcgcgcgtc acggcaaggc cgccacatct 180

agccccgatcg cctgcgcact actgctgccg tagacgttct tggccgctgc catctgtgcg 240
 ggcgccccgc tactcctcgg taacctgagc cagtgatgac gcatgcctgt cttctagacc 300
 gacgagag 308

<210> 33724
 <211> 190
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-D1

<400> 33724

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 agacatcaag tttagggagg gaatatgcat gtactctctc tttcccaccc caaataagtc 120
 ttcttcacatc catatttcga taaatcaaac aatctcaatt ttgatctaata atatatacac 180
 acaacacatt 190

<210> 33725
 <211> 377
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-D10

<400> 33725

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 gtgcgccgcg gatcctgccg tcacgaatgg aggcgtggcc ggacgatttc cgctgccccca 120
 tcacgctgga ggatcatgact gaccgggtca tcttcccctc cggccacacc ttcgagcgcc 180
 gcatcatcca gagctggctc gacggggggc acctcacctg ccccgctcacc aacctcccg 240
 tgccgccctc cccgccgctc atcccacaacc acgcgctgcg ccgcctcata gccgtcgtct 300
 cgccttcgcg ggcggcgctc ctcgtccctg ctgagggagg ggctcacgcg aggcaagaag 360
 cggtgtcggc ggctgct 377

<210> 33726
 <211> 215
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-D11

<400> 33726

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gcctatcagc atctctggct ttaatcaatc attcggtcac cctgttctct atcgactaa 120
ctcttctcaa tacattcaat aatcatacta tacatgatct atctcttaca ttatcacaca 180
tgatcaacat catacatctc tacaaactcc ttttg 215

<210> 33727

<211> 171

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-D12

<400> 33727

cacggaccct tggggcgcta actccctaac cttaatcttt ttctttctct atcaaatacc 60
ccttttgcta tctattattc ttacttacia gcgttcattc ataaatcatc acactttatc 120
ttcattccac ttacttttca accaatctcg attaccaatt ctgtgaatca a 171

<210> 33728

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-D2

<400> 33728

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tggcctcacc agggcgggag tccatcccag cagccatggc gatggcgtag aagatggcga 120
cggaggggat gaacgtgaag gaggagtgc agcgctgggt catggagatg aagtgggaaga 180
aggtgcaccg ctctgtggtg tacaagatcg acgagcggtc gcgcgccgtg ctggtggaca 240
aggtgggcgg ccccggggaa ggggtacaac agctcgtggc cgcgctgccc ggcgacgact 300
gccgctacgc cgtcttcgac ttcgacttcg tcaactgttg caactgccag aagagcaaga 360
tcttcttcat cgcttggtca ccggcggcgt cgaggatcag ggccaagatc ctgtacgcga 420
catcg 425

<210> 33729
<211> 143
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-D3

<400> 33729

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gagccttaac attcaggatg ttgaacaaca acatcatctc cattgcctac atcattggta 120
caggcatgat taccgtaaag gat 143

<210> 33730
<211> 164
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-D4

<400> 33730

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gggcctgacc atttctcacg tccatcccat cttccatcta cacttcatgc aacattatta 120
cacttgcat caacgtctac cacttatacc acacctcttt catc 164

<210> 33731
<211> 311
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-D6

<400> 33731

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ggttggtttt ttttttgggt tgagtgtttt tttttttttt tttttttttt ttattttttt 120
ttttttttta tttttttttt ttttttttat ttttttttta tttatatatt tttttttatt 180
ttataaaaaa tgttgatgta cattaaataa taaaaattta acaccactct atttaaaaaa 240
taatataattt tttataaaga tacaaaaaaa taatttactt gctatttttat aaaaattggt 300
aataataaaa a 311

<210> 33732
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-E1

<400> 33732

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cgcgccgggtg gagaggatgg agctggccaa gtcggtggtg tgggagtcgc tgcgcctgga 180
cccgcccgctc aagttccagt acgggcacgc caagaaggac ctgctggtgg agagccacga 240
cgcggtgttc cacgtgagga agggcgagat gctgatcggc taccatccgt gcgccaccaa 300
ggaccacgc gtgttcggcg acaccgtcgg tgacttcgag cccgaccgct ttctcggcag 360
gagggcacca agctgctgca gtacgtgtac tggccaacg gccgtgagac cgagaacccc 420

<210> 33733
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-E10

<400> 33733

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tcaggagaca ccgagtgcc aagagatgc aacgcctggtg acggggcgga gagcttaagt 120
acgcagcgcg tgggccaacc aaagcctcag aggtgcactc aaactcatct gcaagcccgg 180
ggggagaagc aaaatgggac ctgcggaacc tgaaaagatc ctgaagacac cgggcatcaa 240
ctgatcatct tgtttgtaga tcgtagtaat gtgccttgct actgcacctc aacaaaaatt 300
ttaagagctc aattgctagt tacagtg 327

<210> 33734
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-E12

<400> 33734

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aatatcaatg cctggataga ccagaaatca taacacgcta ctaaccaagc agtaacaaca 120

agaaccatta gcaagcaagc attatgactt aaatggacta acacataacc aagtcacaca 180

tcatgctcac atcctcttta ctgataacaa atcaccacta ccaatcgggt gcatcaacta 240

caaccttcca cgcacgtaca atcactatcg cgttacaaac aatcagtatc ctaaacttaa 300

cctttcgaac cactttctaa acccaattca cacagcttat cgacgcttaa acaatcaaac 360

acttcgacaa 370

<210> 33735

<211> 255

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-E2

<400> 33735

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gggccttata aatctaaagg tagatccatt atatgatcta aactgattat ctgataattt 120

tagttgagat gatagtatag taaatgtacc atactctggt ttactataa atatacttca 180

atacttacat acatttaaatt ttctaaaacg actataacga actacaccat ccatagtgac 240

aactcatact actac 255

<210> 33736

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-E6

<400> 33736

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gatcgcaaag tggagaaagc caggatacga gcgcctttgc tgcctccggt gcatacagac 120

acgtgaccac aactttgcaa cgacttggtg ctgccgagtc cccaagcatc tgagggagga 180

gcaagtgata gaatgtgtcc attgcggtg caggggtgtg gccagcgggtg actaatcttg 240

tcagttgtca tcatgttggt gggctcacga ctcatcatca ccatacctaac cacattaagg 300
 cttttcgggt agctctcaat ccatgtggat tgagtaggat tggatgagtt tgaatcccaa 360
 acaagtcaaa ctttttaaga atttttttca atctcatcca atccatgtgt attgggaata 420
 accgaacaag gccttagatg tctcgtgagc atg 453

<210> 33737
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-F1

<400> 33737

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 gggaggcgta cgtcgacgag cacgtgatgt gcgagatcga aggacagcat ctcagcgccg 120
 tcgccatcgt cggtcacgac ggcagcgttt gggcgcagtc cgagagcttc cccgagttaa 180
 agcctgacga ggttgctggt atcataaagg actttgatga acctggtact cttgcaccaa 240
 ctggtctttt cgttggaggt acaaagtaca tggatgatcca aggtgaacct ggagttgtca 300
 tccgaggaaa gaagggcact gcgggcatta ctatcaagaa aaccggcatg tccttgatta 360
 ttggtgtcta cgacgagcca atgacttcaa ggcaatgcaa cgatgtggtg gagaggctcg 420
 gcgattacct gatcg 435

<210> 33738
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-F10

<400> 33738

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 gacccgagct ccaggcccat gacgctgcac gccacgctgt gggacggcag ctactgggcc 120
 accgagaagg gcagggtcgg catcgactgg tccgacgcgc ccttcgtcgt ctctaccgc 180
 agctactacg ccagcgcttg cgtcagcggc ggcgcgtccc gggcagccgg cagcggcggg 240
 tggatgaaca ggcagcttga cagcgccgag tggggcaccg tcaggtgggc ggagcgcaac 300

ttcatgcgct acaactactg ccaggatggg tggaggttcc cgcaaggcct ccccgccgag 360
 tgcgccccgc actgatatgc gtccgccggt taattcttcg tcgatccagc ttggcgctgt 420
 ttgttctttg ttttggtggg tat 443

<210> 33739
 <211> 416
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-018-Q1-K1-F11
 <400> 33739

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 caccgagaag ggcattgtag gcatcactact ggtccgacgc gcccttcgtc gtctcctacc 180
 gcagctacta cgccagcgcc tgcgttagcg gcggagcgtg ccgtgcagcc ggcagcggcg 240
 gctggatgaa caggcagctt gacagtgccg agtggggcac cgtcaggtgg gcggagcgca 300
 acttcatgcy ctacaactac tgccaggatg ggtggaggtt accgcaaggc ctgccccccc 360
 agtgagcacg acaactgatat gcgttagtcg gctaactagt tcgagatcca gattgt 416

<210> 33740
 <211> 202
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-018-Q1-K1-C8
 <400> 33740

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 ggacggattc gtctgcaaag gattcagcac gccgcccgtt gggaagggag cttcgaggcg 120
 gccccccgcy gtgcgtccgc cgggcgggct gagccaatgg cacgggccct tggggcgcyga 180
 acgccctaac tctagatcgc ga 202

<210> 33741
 <211> 318
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-F12

<400> 33741

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acggacccta atctccagtg gccatgaccc tagatcgcca tacatgtgcg actgacatct 120
actagatcca ccatacaagt gaatcgctct gcatacact ggtccgaccc gctctattct 180
cgtctactac cgcatatact acgccagcgc ctgcattatc cgcggcgctt tccaagcagt 240
cggcatctgc ccgcggatga acaagcaact tgacagttcc aagtgtggca ccgtccgatg 300
gaactgttct caacttta 318

<210> 33742

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-F2

<400> 33742

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tggagaggcc aaacgtgtgc gatgggtaat tatataagac gtgctcttct tcagatcatg 120
gtgaattgaa agactgccaa attaaggcca cttgtgttgc tttgattgta cggagagatc 180
atgctgacgt gtacgtacgt gtaccgagat ccgtttcaaa tgcattgctt gattgtacag 240
agagtggctc gtttggcata tagctccgct acatgattct ctaatagggt aattccgtgt 300
gattctctaa caaaagtga tctgctattt gatg 334

<210> 33743

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-F4

<400> 33743

ggcggatcgg gagcgggaga gaccactccc aaatcgcgtc gcgtcgcgtc gagagcgaga 60
gcggaagatg tgcgcgcggg ggaaccgagc cgactgatgg agccgacggc ggcgcccgcc 120
gcctgcgaga tcgcgcgcct gccggatgac ctctgtcgg cggcgctcgg ccggacgggg 180

ccgctggacg cctgccgcgc cgccgcggtc tcgccggcct ttccgcgcgc ggccgacgcc 240
gacgccgtct ggtccagctt cctgccgccc gacctgcccc cgctcgccga tggggagctc 300
cccgccgacg cgacggccac caagaagcag ctcttcatgc gcctctccga ccccgccaga 360
cccgtcctcc tcgccgacgg cctcacgagc atgtggctgg acagggtcac cgtcgccaaag 420
tgctacatgc tgtccgccag gaagctgacc atcatatg 458

<210> 33744
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-A1

<400> 33744
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gaaagtggca tcattgtcag ccgttctctt cgtgctagcc ctgacgctag tttgtgcccc 120
gctgatagca gaggcaaaga agaagagagt cgccgccgcc gccgccgagg agaagaaggt 180
gcaggacaac ttctgctcga cgctgtgcga aggcaggaag gggatggacc tgggtggtgtg 240
caaggagtcc tgcgacctct cacagcgctc caacctggtg ctgtacggcc ggatccagtg 300
caagggcaag tgcaccgagc agaagggca 329

<210> 33745
<211> 282
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-A11

<400> 33745
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aaacttctat atcatccaaa gtcactttct catacttaac tcctcataaa tcttctatat 120
tattacctaa atccaactca ctctacctca actttcaccc taccacttc aaaatccaca 180
actcttccta actaatcgc ccaataccat atactctctt ctaccgctat ccttataaat 240
cattactcct aacctatccc cctttcaaac aaccatacac cc 282

<210> 33746
 <211> 193
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-018-Q1-K1-A12

 <400> 33746

 acggactcac tcaagcccta cctccatcta tgactacgat ccctctagac gataaaacgt 60
 tccggtctca cgcattgcctc gtgctaatat tcctatactt tctgctacat tctcaacaca 120
 taaattccta caacagcccc gtctctcgac actaccatac tgatcaccaa ctatctagca 180
 cttatgaccc ata 193

<210> 33747
 <211> 453
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-018-Q1-K1-A2

 <400> 33747

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 gcttgagagt ggtcttcaag aatacctcaa ccagcaagga ttccatateg ttggctatgg 120
 ctgtaccact tgcattggaa actctggtga tctcgatgaa tccgtatcaa ctgccattac 180
 acaaaatgat gttggtgctg ctgctgctat gtcaggtaac cgtaacttct agggctcgtgt 240
 gcacccttta actagggcta actatcttgc ttcaccacct cttgctgtcg cttatgcact 300
 tgctggaact gctgatattg attgtgagaa agagcccatt ggatttggaa aggatggcaa 360
 tgaactctac ttcatggata tatggccctc gacagatgac attgcgcaag ttgaccaatc 420
 cagtgtgctg nctgacatgt tcaatggcac cta 453

<210> 33748
 <211> 252
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-018-Q1-K1-A3

 <400> 33748

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 ggtgggcgag accaaggacg cgcacggcgt gaagcagggtg tacgtgtggc acgccatggc 120
 cgggtactgg ggcggcgtga cgtcgaengc cgggacggcc attgaacgct acgagccggc 180
 gctggcctac cccgtgcaat ccccgggcgt gacgggcaac cagccggaca tcggcatgga 240
 ctcgctgtcc gt 252

<210> 33749
 <211> 454
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-A5

<400> 33749

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 ggggccaaca agctgtgcgg gatctaagtt gtgcgcacct ccatcgcgcg cgtgctgacc 120
 gtcattctcg agaagcagaa gtcggcgctg cgtgagagcg tacaagaaga agaagctgct 180
 cccgctcgac ctgcgtccca agaagaccg cgccatccgc acgcgcctca ccaagcacca 240
 gctctccttg aagaccgata gggaaaagaa gcgtgagaag tatttcccca tgatgaagta 300
 cgttatcaag gcctatatca gtgaaagaac atttatcctg tcaagttttg ctcaaaagct 360
 acttgaattt gatacaaacc tatctccatc caagtactat gtagatgatc aactgcatga 420
 ttaacaacga gtacttttgg ctaaaaaata aaaa 454

<210> 33750
 <211> 456
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-018-Q1-K1-A8

<400> 33750

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 ccgcgatcac ccacctcatg gcggacaagg agcctgtcgt ggagcggcca gaggcgggtg 120
 aggaggagga cgcctcagcc gccgccgccg cgggggagga ggaggacacg ggcgcccagg 180

tggctcccat cgtgcggctt gaggaggtag ccgtcaccac cggcgaggag gacgaggacg 240
 tcttgctcga catgaaggcg aagctgtacc gattcgacaa agacggtaac caatggaagg 300
 aacggggcac gggcgctgtc aagctttctca agcacaagca gaccggcaag gtccgcctag 360
 tcatgcgcca ggctaaaacg cttaagatct gcgcgaacca cctcgtggcc ttcaccacga 420
 agatgcanga gcatgncggc agcgacaagt cgtgtg 456

<210> 33751
 <211> 384
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-B12

<400> 33751

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 atctgccgac cacctgctgc tcatcttcta ctctttcctg ctgacaactc atgtcataaa 120
 tatcaacacg aggaccgcct gactagctaa caaactgatg attaacgagc aagcttgaag 180
 agccagaatc agcgaggagg cgcggtacgt gccggtgcgc aagttgctgt accagtccat 240
 gactcctgct acagctatga gctctacgac agcagaggca ctgactgaag ctgcatcgta 300
 cgagccgtac gaggtgagcc acgcgtgcct gtgctgctcg ccgtcgtcgt cgtcgatcaa 360
 cggcagcagc agctgcgtat acac 384

<210> 33752
 <211> 453
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-018-Q1-K1-B3

<400> 33752

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 tagaatatcc tgattggccc gaccatggag tggcaactaa tacagatgct gtacgggaaa 120
 tctggaaaacg actgcatcac attccaacgg aacatcctat agttatccat tgcagtgcag 180
 gaatcggaag gactggtact tacatcacia tccatactac aattgagcga attcttcttg 240
 gagataaaag ctcttacgat cttgccaaaa ctgtaaagaa ttttagatcc caacgacctg 300

ngatgggtcca aacagaggaa caatacaagt tctgctacag ggcaattgct gacgagctga 360
aagacctgct aaattcagat cattgaggtg ggtcacatga gacggacagc aacgctgnta 420
gcatttatta cgtnttttta gacatttteta tgt 453

<210> 33753
<211> 313
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-B4

<400> 33753

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gagcctgatc tctttgaccg gacgatcaag attcaactta tgccgatgct atcctggata 120
actcacaact acagcttcac attacaacca aacatactat agtcatccat tataacttcac 180
gaattgtaaa cactcaaact tacatcacia tcaatactaa aatcaacca attattaaag 240
ataatacaag ctctgactat ctctccaaaa ctgtacagaa ttttcaactc caactaccta 300
acatagaaca aac 313

<210> 33754
<211> 173
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-B5

<400> 33754

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tggtgtgtct cgtactctcg gtgtgaagaa aagacgcgtg ccttttcttc tcgctgcaag 120
ttttccctta ccaagggttt gtgcatggaa tggactgtat attattaatc ata 173

<210> 33755
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-B6

<400> 33755

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cacctgcaag acattgagaa ccagccagcc aaccaaccaa ccggcggagc caaagccaag 120
aaggaaggca acttgccgt ccagtcagga tgtgcaactg caacgtcaag tccgcgggcg 180
tggcccagat cgacggccgt ccggtgctgc agccggcgga caacgcgtg gcggcatcag 240
agcctgacgc ctaccaaccg ctgaataagt cccttcagaa gtcactctcc atgccggcct 300
actacgacag caatgcctcc gcaggcgctc gacctgcgcc agacgagaac actacccgta 360
cagcggctaa ttcgtct 377

<210> 33756
<211> 313
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-B8

<400> 33756

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gagtgaaaaa aataaaggga cgagaaaaaa aaaaaaaat aacaatataa ttacaatcat 120
atctaatacct tctattttctt ttccttttat ccattattat ttttctttat ccttatttct 180
accctttttt ttattttcct tctctttaaa ttctctttct tttttctttc tccatctctt 240
tctccttcta atccttctcc tttcaaatta ttttctttt tcttttttgt atttcttctc 300
atcttttctt ttt 313

<210> 33757
<211> 101
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-C12

<400> 33757

acaaatatcc aaatcccaa ctctacagtc ctttttcct ccagcctgcc actaaccttt 60
tcctactcaa tcatcccaac tctacttata aattacaaca c 101

<210> 33758
<211> 458

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-C3

<400> 33758

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 cagaaggtgc cacctaaaga tgatagccag aaagctgcta ggaagagcac cccaagtgtc 120
 ccctcagatg acgctgacaa agcagctaag aagcatattc ctactgtaaa gagaacatct 180
 ggggtcttag gaaactcgaa tggtataaat ctagtgaaga ttctctccaa ccgcaaaaaa 240
 ctaacagata ttagcacttc atggacatca ctccctccat cacttgccaa actaggaaag 300
 gagcttctta agtacaggga atcggcacia atagctgtgt ctgaagccat gcaagaagct 360
 tccgctgcag agagcttgct cagatgtttg agctcgtacg cggaggtgag ctccacggcg 420
 gatgagcaca acccgagcc agccgtagag aagttctt 458

<210> 33759
 <211> 318
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-H9

<400> 33759

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 gaacaaattc atatgatatt ttggttgtga tgtgtaatat tctatgacga tatgaatgca 120
 tatgatgtgt tcgttgcaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa ataaaataaa caaacaact aaaaaagggc tgctggtttta 240
 aagcttccta gtttaattca ctgtcattcg atatacaact tcttgaatgg gtaaacctat 300
 gtcaaatccg catgtcaa 318

<210> 33760
 <211> 461
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-C4

<400> 33760

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gagctggaaa acttgaagtg tatgaccatg atatgttctc agccgatgat atcatgggtg 120
aagcagagat agatctccag ccaatgatca cagccgccat ggcctttgga gatacttcac 180
gtcttggtga catgcaaatt gggaggtggt tcatgaccaa agacaacgcc ctgatgaaag 240
atagcacggt gaatgttggt gcaggtaagg taaaacagga ggtgcactta aagctacaga 300
acgtagaatc aggtgagttg gagttggagc tagaatgggt tccgatcctc tagactaatg 360
ataactcccc tgatctttgt ctaaaaatct atactcaaga tgcacgatg tttccaagct 420
gtccacttga tggctttgga catttttgct ggatggtttg a 461

<210> 33761
<211> 99
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-018-Q1-K1-C5
<400> 33761

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gggtgtggca attatatggg agtgggccaa aatttatctc 99

<210> 33762
<211> 398
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-018-Q1-K1-C6
<400> 33762

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tgcagtcggt ctaccacctg cggatcggct tcgcctccgt ggcgtccaga ccgtctgcca 120
ccagcgccat gtggtggtac atgtgggtgc tgtggcccgt ggcgtggctg tccatggcgc 180
tcgctggggc ctacgggtcc tccgcgttcg tcgtcgagag gatcaaactc gggaagctga 240
ggatgcaaac gtgggcagtg ccaagataca acttcagta cggcctgagc tgggagagag 300
aatcgatcaa cggcctcatc gaaagggcga tactagatgc tgatgcgaga ggtgtcaagg 360
tgctcagcct aggactgcta aaccaggcga aacagctg 398

<210> 33763
 <211> 289
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-018-Q1-K1-C7
 <400> 33763
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 gcccttctcc aagccgggag tcaccgggag gggcatcccc aacagcatct ccatttgacc 120
 cgtccgtcct ctccatccaa tgggggtttg ctttattgcg tgcacgctag ctagctgctt 180
 ggaaataaaa ataattaaaa taaaagggtct cgtctgtact attgtattgt accatggatc 240
 atatcgtaca tgttgtgtca atgcaaagag gcacgtttga gttaccatt 289

<210> 33764
 <211> 426
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-017-Q1-K1-F5
 <400> 33764
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 ccctgccctg gcacctgcga gaaggaggag actacatgtg gagttttttt tttttgcttc 180
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 cattcctgat gtcggtgttg attgctgttg ggttggtcgg gaaatgactg ggtgaaccgg 300
 ggggcgaagt gggagggggg ttgtgtcgtg taattttgga tgccactatt gtgcatgtat 360
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 tactac 426

<210> 33765
 <211> 366
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-017-Q1-K1-F6

33765 33766 33767

<400> 33765
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gcttaagaag gaatgtgttg aggcaatgga gactcaactc aagagggagg agttccaaga 120
tgaggagatg cctgatgtca ggaaactgga catccgaaac ttctgtagg cctgatcgac 180
gataaccttt gaggcattgc aaatcaccca gccacactgt gattgttttt cttttggttt 240
tggtttcaag ttgatcgggtg ctgtaagcta cacctatgaa tgctgctcct tcctttcttt 300
gtaataaaaa aaactgcacc gaggtacaca aacacagtca accgttgagt tgagttgaat 360
ttctct 366

<210> 33766
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-F7

<400> 33766
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ggtgagcatc gacatgggca tggcatttac gcggctcttc tagacggact tcttcaaccg 120
cgaggctatc attctcgtcc tcagactgga cattgctggc tagaccacca tactatatac 180
actgcacatg ggagaagtcc tcttcacgat cccgacaatt ggattcaacg attatactgt 240
gcagtacaac aacatcaagg ctcaagtatg ggatcttgaa ggccaaacat gcattaagcc 300
atactggcag tgctactttc caaactca ggctatcata tatcgttgat gatgcaagcg 360
atacatatag gcttgtaac 379

<210> 33767
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-F9

<400> 33767
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aaagaaaaaa taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaagg gcaacctttt taaagaatca aagtttactt actcagacat ccaacttaaa 180
agcttttata taggataact aaattttaaat tcaactggcac gatttttaaaa acttcggaat 240
tgaaaaaacc ttggcttttaa caaacttaat ggccttgaaa aaaatccctt ttttgcaaat 300
tggctttttt tccaaaaagc ccaatacgaa tggcctttcc aaattttgcc aaacccaaat 360
tggaaaagga aacccccctt ttagggccca ttaaattccc gggtttttgg ggttaccccc 420

<210> 33768
<211> 66
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-G1

<400> 33768
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gaggtc 66

<210> 33769
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-G10

<400> 33769
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gacgagaggg cggagcacgc ggggccggct ctgtctcagg acgacctcga cttcgacttc 120
aaccacgcga ggtccagggc ggcgctggcc aagggcgacg agatgttcgt cgcgatgccg 180
gacgggaagt ggaagctcca cacggtgtcg gcggcgtcga acaagcgcgg cgagatcgtg 240
ctgcggatca agaagacgaa cctcgtcatg gccttctccc acgcaaaaga aagcgtgatc 300
cacgacgtgc agccgtgctc cccggagaag ccgagcccc acgagggcgc gacataccca 360
gtggaggtct ccacgaacaa gggcaaggtg gagctccgca cggacgacta cggcgtctac 420
aagcgggtggg ttgcgacgct ga 442

<210> 33770
<211> 441

<212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-017-Q1-K1-G11

<400> 33770

gttggcttca agttaactgg gaagttacgg agtgggtgtca cggccactga tcttgttctt 60
 ggagtaacac aaatgctaag gaaacatggg gttgttggca aatttgttga attctatggg 120
 gaaggtatgg gtaagctgtc tttagctgac agggccacaa ttgcgaacat gtcaccagaa 180
 tatggagcta ccatgggctt ctttctctgtg gaccatgtga cattggatta ccttaaaactg 240
 acaggccgca gtgatgaaac tgtgtcaatg attgaagcat acctgcgagc caataaaatg 300
 tttgtggact acaatgagcc ttcaacagag agaataact catcttgagc tgaaccttga 360
 tgaggtggag cctagcatgt ctggccana gaggcctcat gatcgtgtcc ctttgaagga 420
 aatgaaatca gattggcatg c 441

<210> 33771
 <211> 117
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-G2

<400> 33771

cctactcgtg ggaaaaaaaa aaacaacatt tcaaaataaa aaaaacaaaa aaaaaaaaaa 60
 agaaaaaaca aaaattaaaa aaaaaaaaaa aaaaaaaaaa acaaaccta taacaaa 117

<210> 33772
 <211> 460
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-017-Q1-K1-G3

<400> 33772

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 aagcccactg agcacatgga atgaggatgc gtgccgcggg ccggcatcgg gcgatctgcg 120
 cccgagcgtg ctgtgagtgg tgctgcac cgtgtcactg ctaactggtn ngggcgtctg 180

cgccggggcgc ccgtgtacca taggtaggcg aacctggaac gcctggggcc gtgccgtcgc 240
 cgtccaaagc ccgacgtcta cnaagcgctg ggccaaatcc atccacttcg cgctcggcga 300
 ctccatctgg ttccgtgtacc cgccgagcca ggactcgggtg ctgcagctag cgccggcggc 360
 cttecggtcc tgcgacctgt cgcgccccgt ggccaggctc gccgacggca actccttatt 420
 caacctcacc gcgcccggcc gcgcctacta cgccagcggc 460

<210> 33773
 <211> 432
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-017-Q1-K1-G4

<400> 33773

cccacgcgtn cgccccacgcg tncgcccacg cgtncgcgtc ggttcacttc tccaggttaag 60
 gaaaggggttc gtactcatgg cgccgcccga gccaaagtcg ggctctcttcg ttggcatcaa 120
 caaggggtcat gtcgtcacca agcgcgagct gcctccccgc ccgtgccacc gcaaggggaa 180
 atcaacgaag aggggtgtcta tggtcagggg cctgatcaga gaggttgctg ggtttgctcc 240
 ttatgagaag cgtatcactg agcttctgaa ggttggcaag gacaagcgtg ccctgaagct 300
 tgctaagaga aagcttgga ctcacaagag ggcaaagaag aagagagagg agatggccgg 360
 cgttctcagg aagataaggt cggctgggtac gcacacttga cagaagaaat agagagcctt 420
 tcaagttcat gg 432

<210> 33774
 <211> 396
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-G5

<400> 33774

gtcctcagcg aggaggagaa ggccgcggag aaagtgtaca tcaagaaaat ggaacaagag 60
 gggctggaga agctcgcacg caagggcccc agctcaggag agcaagcttc gtcgactaca 120
 gtctctgcag caagtgatgt gaaggctggg gctggggccaa cggagtcagc gtctgcaaac 180

gtgtcaaccg acaagaacag gaactacgct gtcctggcag gcacaattgc tgctctgagt 240
 ggcctggggtt ggtatctatt gtcaaagcct aagaagtcgg aggaggttgt ggactgaaga 300
 ggggggttacg aatgcgagct gtggatgggtt ggccttatat ttcaccatgg tttactttct 360
 gcgcacgcct tctggaaata aattgtgaaa catacg 396

<210> 33775
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-G9

<400> 33775

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 gtatgtgaac aaagtgtcgt atgcagtatg caaatgttca ggatccagga accacatata 120
 atggatgtaa atgttgggtt tgggtgccgta tggtgggtgt ggagtatatt tcttcgccag 180
 gtatttgctg taatcctgtc cctttactgt tcgtgcactg caatgagaat aacataaaaa 240
 tgagtgtcgt tcaaaaaaaaa actgagtcaa tgattgaaac atacctgcga accaataaaaa 300
 atgtttgtgg actacaatga gcactacatc agagagaata tactcatatt gagctgaacc 360
 ttgatgaagt ggagcctatc atgtctggcc caaagaggcc tcatgatcgt gtccctttta 420
 atgaaatgaa atc 433

<210> 33776
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-H10

<400> 33776

gcgattccta gggcctgaga tcttcttcaa cccagagata tataacaacy acttcaccag 60
 gcctttgcaa gttgttattg acaagtgcac ccaatcatct ccaatcgaca caaggagggc 120
 tctttataag aatattgtcc tgtctggagg ctgcactatg ttcaaagatt tccacaggag 180
 gttacagcgg gacctaaaga agatagtgga tgcacgggtc cgtgcatcta atagccggct 240
 tattagtggg gatgctaagg cccagcctat agaagtgaac gtggtcagtc atccaatcca 300

gagatatgcg gtatggtttg gtggctctgt gcttgcttca actgccgaat tctacgaggc 360
 ttgccacaca aaggcagagt acgaggagta cggtgccagc atctgccgaa cgaatcctgt 420
 cttcaaaggg atgtactgac t 441

<210> 33777
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-H11

<400> 33777

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 gcttctaagt tagtagtaca ctctgtggct atttcactaa atttcttatg tgcttaagct 120
 tccgtcaaat ccatggagtt tttcttagta agaccatatt aaccttgtct atctatatcc 180
 tctaagatca acggtgtttt catacaagat ttaccgatgt actgctaattg tcctatgccca 240
 atgaaatatg ggaagcctgt agatatatgg attttcattg ctttgcatgc ttttttgtgt 300
 tttgtttcta atttttaaat aggtcttgac ctgccacctc caccttctaa tatttaaata 360
 ggtcatgaca atacacatga gtaagactat aggatgatga cttggactac taatatttct 420
 gagatttatg tgagaa 436

<210> 33778
 <211> 247
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-F4

<400> 33778

aaggacgacg gtgcctgggt taggagttta gctatagacg aaagcacgta cggccgcgtg 60
 ggtggggtag ctacgcggcc tggttgatct tgagcagtta agcgtgtacg aaacgacagc 120
 tgtgtacgtg tgtactgtct gatggagtgt gagaagtact gtgtgtatgt ggtatggatc 180
 cgatcggcct gatgtatgaa aaggatgttt acgtactata tatagatgga aaatcgtatt 240
 tgcctcc 247

<210> 33779

<211> 198
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-017-Q1-K1-H2

 <400> 33779

 acacttcaca ccacacttac tttttcgttc acctcttcac ataacgaaag gggatatctct 60
 caaaacacct ggcggtccaa actcactcct cttctttcac atcaacaaag gtcatatcgt 120
 caccatctc caactacctt ccccccttg ccacctctaa tgccaaattt accaacaaag 180
 tatctattaa catagccc 198

<210> 33780
 <211> 349
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-017-Q1-K1-H4

 <400> 33780

 cggaagaaag aagaacctgt aaaggcatta tcagatatgt ggaaggattt tgattcccgga 60
 gttcgtcgat ataaagttct tctcctctt tgtgctgagt tacgcaacat gggtatgcag 120
 ccaatgattt tgcctatggg tctaacaata gcagaatctc aggataaagg ggattttgaa 180
 cttgcaacac tgcctgcgct tgttccagt tttacttcag catcagggtga aactctactt 240
 ttgcttgtga agcatgcaga tctcatcatt aacaaggcca cacaggaaca tttgatatca 300
 catattcttc caatgctggg tcgggcttat gatgacaatg atccccggt 349

<210> 33781
 <211> 252
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-017-Q1-K1-H6

 <400> 33781

 aaagaaaaaa aaaaaattaa aaaaaaaaaat ttaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
 agaaaaaaat aaaaaaaaaa aaaaaaaaaa acaaccatat ctttaattcc aaacttacat 120
 actcttcctt gcaacatctt accttttttt ttttgtcccc taatttcaat tcactgacct 180

33782 33783 33784

tattttcaca ccggtcttctc tottaaacc cttccgttac ccattcttact ccccttccaa 240
cacttcccct tt 252

<210> 33782
<211> 269
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-C4

<400> 33782

gcacacagct cgcacctaaa gcagcgatct cttgattttt acaatccaac ctaacgacca 60
gggtcccgtag cattttcaaa tatcactaga gctaactacc ttgacatatc tatcttacia 120
ctcctaattt ctaaaagatc cataagacag actttcactg cttctattcc cacttcaaat 180
caaaatcaaa cgaactttta cccatcaagt ccacactata tttctcttcc tcttgatctc 240
atattaccac accttcttta tcttttaac 269

<210> 33783
<211> 450
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-017-Q1-K1-C6

<400> 33783

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gggtctgatat ggcgaccggg agtgcaagtg ccacgcgtc cttctccgtg gcggcggcag 120
cggctgctgc tctgcgcgtc agggggccat gcgctcgcgc ttgcgcttgg gccccctcgc 180
agcgaccgca gcaaggggca ctcgtcagcc tcaagccttg cgcctcactg gcaccacaag 240
ctcctctgtg gcgcgcggag tcggatgccg cgggggggtg tgccggcgcc ggcgatgtca 300
tgggcctcct nctccgggag cgcatagtct tctcggcaa cgagatcgag gacttcctcg 360
cggacgcgtc cgtcagccag cttctnctnc ttgacccat cgacccggac tctgacatac 420
gnetcttctg caactcacca gggggatccc 450

<210> 33784
<211> 153

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 cgtcgacaag cagagcacgg acgaggagcg gtaccgcac agccacgtgt cctacctact 360
 ggtggacggc atccctcacg aggaccacat gaaccacacc gatctgggtgc tcacctgcac 420
 ctcgacgcgc tacatcg 437

<210> 33787
 <211> 143
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-017-Q1-K1-D12
 <400> 33787

cagtcagact gtgttggtgt gtgctgtgtg ggccgagtgt gcagtacagc atcaggccat 60
 gccccctggt ccatctcacc tgtgtgcgac ttttgtttgt gctgtgtcat ctatctatct 120
 aatccatcta tgctatcctc tat 143

<210> 33788
 <211> 419
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-017-Q1-K1-D2
 <400> 33788

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 ggggtccggcg actccggctg cggcgcgggcg tgctagatcg ctaccgacca tgggtgggtgga 120
 ggagatcgcc gaggggggtga aaaacctcac cgttaccgga gatgcggcgg cttcaggcgg 180
 agagggggcag aggagggggcg gcggcggcag cagcaaccgc atccaggtgt ccaacaccaa 240
 gaagcccctc ttcttctacg tcaacctcgc caagaagtat atgcaacagc acgacgatgt 300
 agagctatcc gctcttggga tggccatagc aacagttgtg accgtggcag aaattctgaa 360
 gaacaatgga tttgccggtg aaaagaaaat taagacctct actggtgaaa taaacgacg 419

<210> 33789
 <211> 223

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-D3

<400> 33789

cacttacact cctttaacca taatccccca caccctatct tcccaccact caattctaac 60
 caaccacaat taccaattat atcaatcaat ccatacctcta atcctctgct taattaccat 120
 ctacactcaa tcatcactat cctacaacta accttttctca caactctcta atcccatatc 180
 acattcccta tattttaacg aacaatccaa cacttcctta att 223

<210> 33790
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-E10

<400> 33790

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 gacggggtag cagctgatgt ccgctgtccc tcacctcgct ccccaacgga cggatgacgg 120
 attggtgaca ttcttctttt ccttcccagc caacggggag gctgtacatt gtgtgctgtg 180
 cttggtgaca agctgagacc tccggcgtat tctttgatcc gatcaccccc ctgctcgcc 240
 atcccattgt ttacgtagag aagaggaacc gtggagcttt ccatcgcgga ttgtgaagcc 300
 gctcttgtag acaggcttcc attcaatgtg agaagcttcc cccctccttg acagatctcc 360
 gtgttgtaga cctgtagcca cctgtaagat atgtgatgat gtccaacaaa caactctgcc 420
 agaccactgg ctagtcga 438

<210> 33791
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-E11

<400> 33791

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 gctcaatgtg gatgtgaacg agttccagac caacctggtt ccttaccgga ggatccactt 120

catgctctcc tcctacgcac cggatgatctc ttctgcgaag gccttccacg agcagctgtc 180
 tgtggcggag atcaccagca gcgcgttcga gccggcttcc atgatgggtca agtgcgaccc 240
 acggcacggc aagtacatgg cttgctgcct gatgtaccgc ggcgacgtgg tgcccaagga 300
 cgtgaacgcc gcggtggcca ccatcaagac gaagcgcacc atccagttcg tggactgggtg 360
 cccgacgggg ttcaagtgcg gcatcaacta ccatgcgcca acagtgggtgc cgggtgccga 420
 cctcgccaag gtgcatcgtg cc 442

<210> 33792
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-E3

<400> 33792

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 tgagatcccc gtcccgcatt tcctaaggcc aggttagttg gcattgaaga cgatgactgc 120
 ttctgcagct gctgggtgtg agatgggtggc tgcacgcctt tgcatttcgg cctcgccagg 180
 aattcttacc gcacgggtag cagtttctag gactgattgc atgctcagta cactgctac 240
 attccccaaa atcagctgct cctggcctct aaggtttaag cgcaatgatg ttgttgtaag 300
 agcaatatcg gaagagtgtg gcccgcagg gcttccatt gatctcagag gtaaaagggc 360
 attcattgct ggagttgctg atgataatgg ctatggatg 399

<210> 33793
 <211> 319
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-017-Q1-K1-E4

<400> 33793

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 gcgccgggct gctcggcggg gcttgccggg cccggcgcgc agcaaggcgt gtggagcatc 120
 atcacccggg ccatgttcca gagcatgctg agccaccgcg gcgacagcgg gtgccagggc 180

gccttctaca cctacgacgc cttcatcgag gccgncagca agttccccgg ctteggcacc 240
accggcgacg agcagacgcg cangcgggag ctcgccgnet tcttcggcca gacgtccac 300
gaaaccaccg gtggatggg 319

<210> 33794
<211> 421
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-017-Q1-K1-E5

<400> 33794

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tgtagctct aggtcttagc tagccgcgcc actccttcgt gtagccatca gccttctcat 120
cgccaccaat ggccactgcc gaggtccaga ccccgaccgt cgtggcggcc gaggaagcgc 180
ccgtggtgga gaccccgccg ccggccgctg tgcccagga gtctgcccc gccgaggccg 240
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aggcagccgc cgaggcggag gccgcggctc ctgctggtgc cgaggagccc gtcgcggccg 360
aaccggccgn cgaggcggag gctgctgctc ctgctggtcc cgaggagact cctgcggtcg 420
a 421

<210> 33795
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-E7

<400> 33795

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gatcaaggca ccgtcgggtg tcagtgtgcg caacatcggg aagactctcg tatccaggac 120
acagggtagc aggattgctt ctgaggggtc gaagcacaga gtctttgagg tttgcctagc 180
tgatcttcag ggtgacgagg atcaagctta caggaaaatc aggctccgtg ctgaagatgt 240
gcagggcagg aatgtgctca caaacttttg gggatgaat tttaccactg ataaattgag 300
atccctagtg aagaagtggc agacattaat cgaagcccat gttgatgtca agacaaccga 360

caactacatg ttgcgtttgt tctgcatcgg cttcaccaag aggcgcccaa acc 413

<210> 33796
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-F10

<400> 33796

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gcgccatcgg cttcatcgtc ggcgccaaca tctcgcgcg ggggcccttc agcggcggt 120
ccatgaaccc cgcccgtcc ttcggccccg ccgtcgcgc gggcaacttc gccggaaact 180
gggtctactg ggtcggccccg ctcgtcggcg gcggcctcgc tggcctcgtc tacggcgacg 240
tcttcacggt cggtctctac cagcagggtc cggaccagga ctacgcctaa tttattcacc 300
acaccatcgt ctccgctttg gatgaatgga ttcaaaccga tcgtcgtttg cttttgctcc 360
tcgccacgtt caattaatgc ttgtgtatgc atgtatgtgc caatatgatg tgccgttgcc 420
ctggtccatt catttccctt t 441

<210> 33797
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-C2

<400> 33797

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acctacatta gctcttgac atattccggc cgagccaggc tccccacctg acaatgtctt 120
ccgtccggat cggccccggt agtcctttcc ttgtaaccaa aacgacgctc ggtgccccgc 180
ttgcgaccca ctgaataagt ccataccgt taaaagtagt gatatttcac ttgcgccctt 240
acgtccccac ttatcctaca cctctc 266

<210> 33798
<211> 393
<212> DNA
<213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-017-Q1-K1-F2

<400> 33798

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 gtcnagggcg ccagcaagtt ccccggttc ggcaccaccg gcgacgagca gacgcgcagg 120
 cgggagctcg cgccttctt cggccagacg tcccacgaaa ccaccggtgg atgggcgact 180
 gctccggatg gaccgtttgc ctggggatac tgccgggtga aggaacagaa acagacggac 240
 ccaccctact atggacgagg acccatacag ctaactcata agtacaacta caggctcgcc 300
 gggcaagcgc tgaacctgaa cctggtgggc gaccgcgacc tgggtggcgag agaccccgctg 360
 gtagccttca agacgggcat ctggttctgg atg 393

<210> 33799
 <211> 207
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-017-Q1-K1-F3

<400> 33799

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 agtcancgta cactatcgcc atggccgtga catcgaccgc cgtagtcgtg ctatgcccgc 120
 cgtccgtgtc cggctttcta ctggcaccgg cttcaagaca agcgcgcgctg tcgttccact 180
 cggcgccatc gacagcacgg ctgtcca 207

<210> 33800
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-A11

<400> 33800

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 caagcgtgaa ccatggcgga cgagtacggc cgcagcggct acggcaggct cggcgccggc 120
 gacgactacg acagcggcta caacagcaag tccggcactg atgactacgg ccggtggcgaa 180

ggtggctaca acaagtcggg cggcgatgac gactacggcc gcagcggcgg cgatgggtac 240
 ggcaggtccg gcggcgacga ctacggcgt ggcaccggcg gcggtggcta caacaagtcc 300
 ggcggcggag acgactacgg ccgcagcggc ggcgacgact acggccgtgg caccggcggc 360
 ggcgggtaca acaagtcggg agacgacggc tacgacagcg ggtacaacag atcgggcacc 420
 accaacgacg acgaata 437

<210> 33801
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-A12

<400> 33801

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 tacacatagt gtctcacaac tttctccaaa cattctaaat tttttatcac agactctaca 180
 tatgatatca tgacatgtgg acaagtttca tgattttcta agtttgtttg tgttttataa 240
 attttttaaa cagttgtatg gcaagttcac ggccatgttg agtgagcatg gtgctcgaag 300
 tttccgggtcc gctcctgaaa tccgtcgtaa cttgtgctat gtagcatgga tatcattttt 360
 gcattcacgg ttttccaagt ttcgagtac ctgcaattca aatctgaatt ttccgaagaa 420
 attcaaaa 427

<210> 33802
 <211> 372
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-A2

<400> 33802

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 gccagcaagg aggctctcc atctcctccg ggaaggctgt gcagcaatgg agaagtataa 180
 cagcaagact cagttagcac ccttgagaga taccatattt gctctccgtg gtgctcttgg 240

tagttcaagc tcataccttg agcaagccag gggctacacg tcttcccctc tagcagctct 300
 gcgaccaaag atgtcttcta ctactggaaa tcgactcctg cactcgagtt gccccctgtc 360
 atctcctgta gc 372

<210> 33803
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-A3

<400> 33803

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 tggcccagtt tgatgaggag ctttaciaaag ttacaggtga tggatgaagac aaatatctca 180
 tagctacatc agagcagcct ttatgtgctt atcacttagg tgatagaata taccctgctg 240
 aacttccaat caaatatgct ggggtactcca catgcttccg gaaggaagct gggtcgcatg 300
 gaagggacac agctgggtatc ttcagagtcc accagtttga aaaaatcgaa caattctgca 360
 ttacaagccc aaatgacaat gattcttggg agatgcatga agagatgcta aaaaactcag 420
 aagattacta taaggagaat ggggtacca 449

<210> 33804
 <211> 188
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-A4

<400> 33804

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 tcgcgcgcac tcgtctgttt ctctcatgga agccgtgtga acctgtgcgt gtgtgtgacg 120
 aatgaacgga actttatatg gaccagtgtc taagagtctt tgcaacataa ttatgaaggt 180
 ttgtttgc 188

<210> 33805
 <211> 404

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-017-Q1-K1-A7

 <400> 33805

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 atcgctgatg acgactccgg tatctactac cagctggctc ttatgtggcc aggagcatac 120
 tgcgagcaga ccagcgctgg gtgctgcaag ccgaccaccg gcgtctcgcc ggcgcgcgac 180
 ttctacataa cgggcttcac cgtgcttaac gcgaccaccg acgctgcagt gacgggatgc 240
 agcaacaaag ttccttacga ccctaacctg attaccggca tccaaggcct gaatcagtac 300
 tggagcaaca tcaggtgccc cagcaacaac gggcagagca gctggaagaa cgcctggaag 360
 aaggctcgcg cctgctccgg ctcagcgaga aagactactt cgag 404

<210> 33806
 <211> 361
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-017-Q1-K1-A8

 <400> 33806

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 atgtgtgttt agagcgagcg agggaaaaaa gaaaacatct aagatatact ccaacatctt 120
 cgtttgatta acccgcccag taaagccatg ggtactaatt atagagcggc catttctcta 180
 gtactcctcg tgtgcatcgc tagccgctcg tccttgggtg ccgctgaaac tgacgttgag 240
 cagaagcgct cgtcagtccc ttgatgttt gtgttcggtg attcgctggt cgatgtcgga 300
 aacaataact tcctgccgnc gactgcaccc cgtgctgcat cttcgtacgg catcgacttt 360
 c 361

<210> 33807
 <211> 374
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-017-Q1-K1-B1

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 ggcgtacggc gtagcggaga gcgaggagga gcacgtggag ggcttcgagg cgggggacac 360
 cgcggtgccg acgttctctg ggcaagtgcga gcgctgcgac tactgcgcgt atgagcac 418

<210> 33810

<211> 223

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-B12

<400> 33810

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 ataaatgcga cgccatattt tttatatctg gtcaactaaa tttaattaac tgacagatgt 180
 tttaaaacgt ggtgactgga aacaaaatga ctttaccat ctt 223

<210> 33811

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-B2

<400> 33811

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 acaccaggcc tggatgcac tatctatatt caagtgggtt tcgtacatcg gatgacacga 120
 ttccttctga cagctatgca tgttatggcg gctcccatgc acctgaaaga ggatatgggg 180
 cttacagcgg gtacagagct cgctcctcta ataagagtt atcttgtcat acttctcttc 240
 actatggaaa gcgtcatggt tattaggatc tagattgctt gatatagcag ctatcttatg 300
 gacctgttat tttcaacatt gtcacccttg ctactttaac gtactataaa aacatccaag 360
 actttgaagt ttggagcctg cttata 386

<210> 33812

<211> 222

<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3068-017-Q1-K1-B3
 <400> 33812

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ggtcgacatg gctcgcacgc aatctgccgt agcggtcgcc gtggtggccg cgggtgctgt 60
gctggcagcg gcggcgacga cctcggaggc cgccatcacc tgcgggcagg tgagctccgc 120
catcgcgccc tgctctctct acgcccgcgg cacgggggtcc ggcccctcgc cgctctgctg 180
taccggcgtc aggaacctca aaagcgccgc cagcaccgcc gc 222
  
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<210> 33813
 <211> 308
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-B4
 <400> 33813

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cccacgcgtc cgcttaatcc agtgcattct tgagccgccg ccgccgtgag gagctccgcc 60
gatccgggggt catccgtcaa atcagttgat acgaagacat tagaggatat aatcggccct 120
tcaacttcaa tgaagtctca tacacatcca gtgaagcctc gctttcaagt cagcaatcgg 180
cctaaatgca atttgctaaa taaaagttct attgattctg agcaaactat ccaatcttct 240
atagcctcca agataacaac tttgattgac ccgcggcacc ggtatgacca caaccttcac 300
tgctacta 308
  
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<210> 33814
 <211> 410
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-017-Q1-K1-B7
 <400> 33814

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cccacgcgtc cggagtctta cgagcagtcg cagcgaagtg tcaagagacg aaacggtcga 60
gatggctcgc acgcaatctg ccgtagcggg cgccgtgggt gccgcgggtc tgctgctggc 120
agcggcgggc acgacctcgg aggccggcat cacctgcggg caggtgagct ccgccatcgc 180
gccttgcttc tcttacgccc gcggcacggg gtccggcccc tccgcgtcct gctgtagcgg 240
  
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cgtcaggaac ctcaagagcg ccgccagcac cgccgtcgac aggcgcgccg cctgcaactg 300
cctcaagaac gccgccaggg gcgtcagcgg cctcaacgcc ggcaacgccg ncagcatccc 360
ctccaagtgc ggcgtcagca tcccctacac catcagcacc ttcaccgact 410

<210> 33815
<211> 444
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-017-Q1-K1-C11
<400> 33815

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gtgcattttg gtggacgagc aggacaatgt tggtggccat gagtcaaagt acaactgcca 120
tttgatggaa aagattgatt ctgagaatct gctacatagg gcatttagtg tgttcctttt 180
caactcaaaa tatgagctgc tacttcagca aagggtccgcg acaaagggtta cctttccttt 240
agtttggacc aatacctgct gcagtcaccc tctgtaccgt gagtctgagc ttatccagga 300
gaactacctt ggtgtgagaa atgcagcaca gaggaagcta ctggatgagc tgggcatccc 360
agcagaagat gccccagttg accaattcac ccctctgggc cgaatgcttt acaaggcacc 420
atctgatggg aaatgggggg agca 444

<210> 33816
<211> 451
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-017-Q1-K1-A1
<400> 33816

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gggactacct cggcaacccc agcctgatcc acgcgcagag catcctcgcc atctgggcct 120
gccaggtcgt gctcatgggt gccgtcaggg gctaccgcat tgccggcggg ccgctcggcg 180
aggtcgtcga cccgctgtac cctggcgga gcttcgaccc cctcggcctg gccgacgacc 240
ccgaggcctt cgcgcagctc aagggtgaagg agctcaagaa cggccgcctc gccatgtttt 300
ccatgttcgg cttcttcgtc caggccatcg tcaccggcaa gggcccgtc gagaacctcg 360

ctgaccacat cgctgaccca gtcaacaaca acgcatgggc ctacgccacc aacttcgtcc 420
ccagcaacta agctcaacgg ctatgctatg c 451

<210> 33817
<211> 274
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-C12

<400> 33817

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ggggcatagt agctacaaca ggctacgaca ggcacattca gtcatatgag cattcatgcc 120
attatacatg aagcaattga cattgacgtg cgctttgcaa attgtgatgg ccaagactat 180
gtaacagaag cccaatcta agctatcacg atctgctaag aatcagtact gaatgatggt 240
tgcagtaact taactgtact ccgctatctg ctaa 274

<210> 33818
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-F8

<400> 33818

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gcaatgtcac gcgcgatggc gcgcggcatg gtctccgca acggcggcac gatcacgggc 120
tagaataacg tgctgatcta cttcaccatc gactgcaccg acccaatcat ggacatcatc 180
atggtcgtca acttgctgga gaagctcatg caggaccgca tcaaggtcgc tggcagcctg 240
gctgactacc tcagcatctc tgtcaccatg tctagcgaga cgaccaacgt taccgtaacc 300
tttgacagac cgtacttcaa gagctacatg aagaacttgt ccaagaagta c 351

<210> 33819
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-F9

<400> 33819

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caattctttt ttctgtagag tgtacactta gtaagacaac gtgaaccaa cacaccttct 120
ttctatacca attatcccta tatcacatct aaatatcact caaatcatca ataatgcaaa 180
tgcctattac attcaattaa tccttaagga aaacatatca cacacgatat aaccgcttac 240
cttaacgctc cttgcctatc cactgaacaa cacacactct tgtttcaccc tgggtataccg 300
agaactcctg gatcacttga ccatgtccac ttcaatacac taattcaata ccacctattc 360
cac 363

<210> 33820

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-G1

<400> 33820

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ggttacgagt tgatgaagaa gaaagttaaa cagtatggcc agcagcttca gcaggggggaa 120
aaagatcgctc gtcgggttct gaaggatttc tcgaagatgc ttgatgatca gatagagaag 180
atcgtcctgt ttctgttgga acaacaagga ctattggcaa gcaggattga gaagtttagga 240
aagcaaaggg caatactaca agagcagcca gatatatctg gcattgctga gttacgagaa 300
gcttataggg aagttggtat caatctcatc aaacttctca agttcgttga ccttaatgca 360
actgcatttc ggaaaatc 378

<210> 33821

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-G10

<400> 33821

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ctggtgcgtt cccaacggg agagggtatt tttggagggg aaactatgcg tttttgggac 120

cttcgtgctc cgtgggtaga acctctaagg ggccccaacg gtttggactt gagtaggttg 180
 aaaaaagaca tccaaccttg gcaagaacga cgttcagcag aatatatgac ccatgctcct 240
 ttaggctctt taaattccgt ggggtggcgta gctaccgaga tcaatgctgt taattatgtc 300
 tcccctagaa gttgggtagc gacctcccat tttgttctag gattcttctt ttttgtgggc 360
 catttgtggc atgcatgaag agcccgagct gctgcagcag gctttgaaaa gggaattgat 420
 cgcgatttgg aacctgttct ttacatga 448

<210> 33822
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-G11

<400> 33822

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 aaaaatataa aaaaaaaaaa aaataaaaaa gaaattggaa aaaaaaaaaa aaatataaaa 120
 aaataaaata ataaaaaaaa tataaaaaat aatataataa aaaaatataa aaatatatat 180
 ttaaataaca ataaaaaaaa ttaataacat gtatacaaga ctatgtatct aaaattagaa 240
 ttattttctg tagaacatat gacatttgat taacttaaac ttaaaaaatcg cattgatgaa 300
 actgtttcaa tgattgaagc atacctttaa gcctataaaa taattgtgta ctacaattag 360
 cattcaactg aaagaatata ctcatattta gctgaacctt gat 403

<210> 33823
 <211> 373
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-G12

<400> 33823

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 tcgtgctcat cgattataac ctctaagggg cccaaccgt ttggacttga gtatgttgaa 180
 aaaagacatt caaccttggc aagaactacg ttcatacataa tatatgaccc atgctccttt 240

Sequence and Homology

aagctcttta aattccctgg gtgacttagc tacctagatc aatgctgata attatatatg 300
ccctataact tggttatoga cctcccattt tgttctaaga ttcattctatt ttgtgggtcca 360
tttgtggcat tca 373

<210> 33824
<211> 332
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-G2

<400> 33824
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gcagaaaggt caaaaataaa aaaagcgtac atacactaac atacaacata tataacaatg 120
ccatcccctt tcatgaatcc aatttactgt ccccttcttt acaacgtcat ccaccgttca 180
tatcccttcc ctaacctaac ttaacctcct ctcggtccat accctttccg ccggcaaacc 240
tcttgctttc ccaaacttac cctatttcaa ttccctcctc tttctccac ttaccggaaa 300
cttgaacacg ccctatagct tcgcttttcc ca 332

<210> 33825
<211> 439
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-016-Q1-K1-G4

<400> 33825
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gtggacaagt tttggacatt attgctgctg tgagatgtag tgctaggcaa cagatgggtct 120
ggttgggtgga tcatggattc catggcattg agaagcttgc aaggctagat tgattgtggt 180
ctgcgggggt aaatcttgcg tggcgttttg aacgtggatt ggtaaacaga atagcatctt 240
ttgaacgtcg gttgttccat gtccacagct gatggtggtg gcctcgaatg tcgtactgta 300
cgtccatgtc gatgattccg tcgcaggagc ctactactac tatatccctg ttctatgtaa 360
gatatgtgta ctccagtaca nacagtatat ggacagctca ngattttttt atattgggtct 420

acacatacat ctttagatg

439

<210> 33826
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-G5

<400> 33826

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tttgaggtca aggccacagc tggtagacacc catcttggtg gtgaggactt tgacaacagg 120
atggtcaacc acttcgtcca ggagttcaag aggaagaaca agaaggatat cactggcaac 180
cccagggctc tccggagggt gaggaccgct tgtgagaggg cgaagaggac tctgtcttcc 240
actgcccaga ccacgattga gattgactcg ctgtatgagg gcatcgactt ctactccacc 300
atcacccgtg ccaggtttga ggagctcaac atggacct 338

<210> 33827
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-G6

<400> 33827

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gcttttccca gctcgtaact gtgccgctcg tgtccttcac tcccgggtccg cccaaccaat 120
aatccatcga tccatccacc accaccaccc cgctgcggcg atgtgcggcg gcgccatcct 180
ctcgggtttc atcccgccgt cgggggtggc ggcggcggcg gcggcggcgg ccaagaagaa 240
gcagcagcag cggtgccgtg tgactgcgga cctgctatgg ccggtgcccc gcagtaaggg 300
agtccccag gacaaggagg aggacttcga ggccgacttc cgcgagttcg agcgcgggccc 360
tcgcgaggat ga 372

<210> 33828
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-G9

<400> 33828

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tgtggaaagc cgtattcgat gaaagtcgta tgtacggctt ggagggagat ctttcctatc 120
tttcgagatc caccctacaa tatggggcca aaaagccaaa aaaataagtg attcgttttt 180
agcccttata aaaagaaaac ggattcttga acctctttca cgctcatgtc acgtcgaggt 240
actgcagaaa aaagaaccgc aaaatccgat ccaatttttc gtaatcgatt agttaacatg 300
gtggttaacc gtattatgaa agacggaaaa aaatcattgg cttatcaaatt tctctatcga 360
gccgtgaaaa agattcaaca aaagacagaa acaaattccac tattggtttt acgtcaagca 420
atacgtagag taac 434

<210> 33829

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-H10

<400> 33829

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gctcgagcct cctccgcccc gctcccgccc gtcgcccag cgccgacggc ccgagcagcc 120
agcaccgccc agcaggcgag ccgctccgcc tccgcgctc tatccgcccgt ccgctcgtcc 180
cgaggccgcg agccgctccg cggtacgac cctccgcccc ccgtctgccc gtccagcgag 240
cgcccgacgg cccgagcagc ggagcaggcg agcagctccg cgctccggc cttcgcccgc 300
ggtccgctcg ggctcggacc gagccgctcc gccaccgtc cgccgagcgc ctgacggccc 360
gagcaggcga gcagctccgc gcctccgccc gccgtccgct cggcccgagc agctcaactcg 420
ctcagccgca g 431

<210> 33830

<211> 81

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-H2

<400> 33830
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 atactagttc tagatcgcg t 81

<210> 33831
 <211> 210
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-H3

<400> 33831
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 actatccata ctggttcctt ttaaactctaa tgcgacctac cctttcaact ctaactccct 120
 aacatatctt acaacatata actattataa tctcatttac actaccttta attctaactt 180
 ataatccatc attcataatt tttaaacact 210

<210> 33832
 <211> 434
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-016-Q1-K1-H6

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 cttgtggccc agattaagga agggttcgaa agcgggaagg atcttggtgt gactgtccag 180
 tctgcatg ggaggagca gatctgcgcg ttgaaggatg ttggcccaaa gtaacttcct 240
 tggctttgga gacggaaccc tactgtatct caacttaaat cggaaaagaa gtgtatcacc 300
 aaaggattgc taccgagaca ttcacctggc ttgagctggc ttttgctata gcgtgcaang 360
 ggttgctggg tgctgtacct acctgactta tcattatctg tgggtacaat ttggaccctt 420
 gattttctat gctt 434

<210> 33833
 <211> 225

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-H7

<400> 33833

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 agcttaaaac ataaaataag gacaaaaaaaa aaaaaacaat aaacaaaaca aaaaaaaaaa 120
 ctaaaaaagg cccacctttc tgaaggaccc aacctctcta acccatcctt ccaacactat 180
 acattttttt atggggcacc aaaataaatt cacctggccc gattt 225

<210> 33834
 <211> 305
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-H8

<400> 33834

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 gacggctaag atgatcttaa ctcccaactg atagactctt tggccaata agaagggttc 120
 taaagcggaa gatcttgtgt gactgtccag tctcatggag gagacagatc ttcccttgaa 180
 gatgttgccc caagtaactt ccttgacttt ggaactaacc ctactgttct aacttaaadc 240
 taaaataact gatcaccaaa ggattgctac ctatacatc accctggcttg atcttgcttt 300
 tccta 305

<210> 33835
 <211> 342
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-F7

<400> 33835

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 atagtaatgc tctgcagaag aacctagctg ccagagaatt gctgtaccaa caccagcata 120
 ataaaaggat gagctgcccc tccatggcac agctactctc caataccctg tactacaagc 180
 gattcttccc atattacgcc ttcaatgtgc tcgggtgggct tgacagctag gggaaaggat 240

gcgtttttcac ctatgatgca gtaggttcct atgagagaac cggttacagt gctcatggaa 300
cggaatctac tttgatcatc cccgtcctgg acattcaact aa 342

<210> 33836
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-E1

<400> 33836

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ctggggccgg gctgatcgcc agggctgacg gcgccgtcgc tcagcatggc atgtggagca 120
tgatcacccg gcccattgtc cacagcatgc tgagccaccg cggcgacagc gggtgccagg 180
gcgccttcta cacctacgac gccttcatcg aggccgtcag caagttcccc ggcttcggca 240
ccaccggcga ctagcagacg cgcattcgccg agctcgccgt cttcttcggc cagacgttcc 300
acgataccac cggatggatgg gc 322

<210> 33837
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-E10

<400> 33837

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ttctagggct aagccaaaac ggactgtcgc acgtagttaa ttgaaaccct tgaattcgga 120
atatgggaaa gttgctccgg gttgggggac tactcctttt atgggggtcg caatggcttt 180
attcgcgata ttctatcta taattttaga aatttataat tcttctgttt tactggacgg 240
aattttatcg aattaggttt ctactaacta aaactatgac ttcatagttt ttccatctca 300
aaaaaagcct ttctacttta agctccacat ttctagacat tctggtagtt cgaccgtgga 360
tttttctgat gtggtatctc tggaatatta gtgtgt 396

<210> 33838
<211> 432

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-016-Q1-K1-E12

 <400> 33838

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 gaataatgag ccgcatccag ggatggagat gaagaagatc gcctgcgccg tctcatcg 120
 cgcctcggcc accgtggcgc tggccgcgga ggcgcgggt cgtctccca ccagcggctc 180
 ctccgcggtc gcacccgcca tcgtcggggc cgcctgggcc tctttcttcg cgtactacat 240
 tctactgagcc gccggacgag gagccggagc cggagggaag agaccaaggt ggggggagag 300
 acttggtgct gctgcgtgct tctgctgctc ccgcgcattc ccgatgcgtg ggcgtgctct 360
 gattgggcac ggcggtggca gtggcacacc ttcgtcttac ttttggtagt attttttact 420
 tctcttttct ac 432

<210> 33839
 <211> 394
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-016-Q1-K1-E2

 <400> 33839

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 gagtaactga ggagagacct ggctggtgta gcgacctca cctgccacca tgtgcagcgt 120
 ttgttgaaat tatggcaact gtattctcaa gggatgcatg gcgctgtgta tggcatatga 180
 ttcagaacga cttggtccat ggatggggcc ttgattttgc tcttaggaaa tgtgtggagc 240
 cagcccatga gaaaattgga gtggttgact ccagtggtat tgttcatcaa gtcattcctt 300
 cgcttggtaa ccagggaag gcagagaatg gaaaagcacc atgggaagg gtagagcacg 360
 ctgtcgtaaa gaagggggga tgttccaaac aagg 394

<210> 33840
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3068-016-Q1-K1-E5

<400> 33840

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gcctcgcgct cccgccccct ccgggggaccg ctgcgggtggt tgaggcgacg catgaggagg 120
aggaggacca ggagtgggag gctgcgctgc agaagtggaa gaccaagacc tacgcgctct 180
cggtgccccct acgggtcgtc gcgctccgcg gctccttccc tccatcttgg attaaggatt 240
tcgtcgaagc tcagggggaag agactcaa atcagtcctga actccgtgct aatcttgatg 300
ggatcttctc tgagatgtca caatgtatgg acaagggtca agttcagccg aagtctgcaa 360
tggcagctga tggtgtttcc ctgggggactc tnggctcggc tatgccatcc gtaagggatt 420
gctagagcct atcatgaatg ctga 444

<210> 33841

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-E7

<400> 33841

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attgtggatt tggcattacc aaaaactcct aatgataact ctctgtcatt gtttgcctgat 120
ccccttggtc cagagagatt ttattgtgcg catggtgggg ggcttgacat ggtcacactg 180
cacttcctac cattttcata ccctgaaatg tcttcgacac caccctctgt gcactcctgc 240
ctcactacag ggaacagcga aacaagctca ccttttcttt ctggatttgt taccatagct 300
gatgcatatg gtcatgtaca gttagctggc atcacatgc 339

<210> 33842

<211> 268

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-E8

<400> 33842

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gttcgtacac tcgcggtcgc actcataacc gcatatggct ttcaaggaga acagcctctg 120
 gccaatggaa caatgtaagc aagggaagtg cgtaaaacgg atccgtaact acaggaaaag 180
 gattgtctct gagggttgag ctccgtgata ccggtctact aaccgctctg ctgctggcgg 240
 aatgatcgag ctgctcacgc gcaaatag 268

<210> 33843
 <211> 448
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-E9

<400> 33843

cccacgcgtc cgcccacgcg ttgcgaccag cctaaattgc atggaggact tgtgatcaaa 60
 cacaatgcgc aatcaacgat atgctacaaa tgctgtgaca gcatttattt ttcgagaaat 120
 tgctgagaga caccagctac ctatacagga ttttggtgtt cgcaatgaca tggcttgtgg 180
 ttcaacaatt ggcccatac ttgctagtgg tggttggtatt cgcaactgtt atattggagc 240
 accccaatta tcaatgcaca gcatcagaga aatgtgtgcc gctgacgata ttagctactc 300
 atatgagcat ttcaaggcat attttgaaga atttactgaa ttggatggca aggtcaaagt 360
 ggattactaa agcatatagc acaatagggt agctttgtta caagctgtac tttatacaaa 420
 ttcgataagc aagtggagaa caaatttg 448

<210> 33844
 <211> 336
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-F1

<400> 33844

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 gccgggctag cagcgcgcgc tgctctctct ctaccctccc tgtgtgcact aaactactag 120
 gagtctaggt cggggctacg acaactggtc agagacgacc agcaccacc atgaaaaggg 180
 ttgctcctag cctactacag atagggatgt ttacgatcaa gctacaatga aggattctca 240
 ggatattcag agcacaacag agttgcagtc atcagcacag ggtactaatg aagtgcatag 300

tcagcaacca aacccgatga ccactgatgc tcctgc

336

<210> 33845

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-F11

<400> 33845

cgaagtttgg aggctttatt ggtactgact gtccattggg gaagagaatg gagaattcag 60

ggactcgggc tgagatcggg tgggaaccaa agtatccaag cttcaccgaa ttccttggtg 120

tcagcagtta acatccttgc atactgttca gttagtctga ctcagctgag ttgcaaccgt 180

gattagattg tacatcgttt gaatTTTTat atgggtctgaa ctggtgatgg tgtacatctc 240

agcctaattt tttattctca cagtatttga gctgtgaacc agacagatgc caccatcc 300

cactggacaa tatatactgt cacgtgagtg gatttctcga tcaaaataaa at 352

<210> 33846

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-F12

<400> 33846

accactctt cctctaagtt tttaggcttt attggtactg actttccatt tttgaagaga 60

atgtagaatt caagatctct gtctattatc atatgggatc gaaagtatcc aatcttcacc 120

taattcctta ttatcagcat ttaacatcct tgcatactgt tcagttagtc tgactcatct 180

gagtatcaac cgtgattaaa tcttacatcg tttgaatact tatatagtct gaacttttga 240

tggtgctcat ctcacctaa tttattatc tcacagtata tgatctctta tccaaacaaa 300

taccactcta tactacttaa cactatatac tgtcacgtta atagatttct ctat 354

<210> 33847

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-F2

<400> 33847

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acatcgaaaag gccaacctac accaacttga acaggctgat ctcacagatc atatcatctc 120

taaccacctc cctgaggttt gatggtgcta tcaatgtgga tgtcaccgag ttccagacca 180

accttggtcc ataccacagt atacatttca tgctttcctc atatgcccct gtaatctctg 240

ctgagaaggc ttaccatgag cagctctctg ttcttgaaat caccaatgcc gtctttgagc 300

cctcaagcat gatggccaag tgtgacccaa ggcattgggaa gtacat 346

<210> 33848

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-F3

<400> 33848

ctaaccacca gtccaccacc tgattgacta gagcaaaagc acaagccgcc cacgcatctg 60

gattgcggca gcagcagaag cggcgcgag agctcgtgac gagagcaacc ttctttccgt 120

tcctcgatcg ccatggacaa ggtgctggcc ttctcgatcc tgagcgcgtc gccggccgac 180

ctctccttca cgggcgccgg cttcggcgagg agctgggagc ggctgtcgtg gcggcggggc 240

gcggacgacc agcgtgcgcc gcggcgggag cagcagaagc agcagcagga ggaggacagg 300

gagaagcgag acttgcgctc cc 322

<210> 33849

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-F4

<400> 33849

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agaaagtgag acaaagtga gcgaaagagt tttctttgta taagaattag gtctatatca 120

tatctaaata gaagggaat caaaaagaag ggaagtgggg attacattgg atgaatcctt 180

aaggaagaca tatcacaaaa gaaataaagg ctaaagtaag cgctccttgc ctttggtttg 240

agcaaaacag attcttggtt caccgaggaa aagagagaag ttctggataa attgacaatg 300
tcaacttgaa ttgactaatt cagttccgcc tattccacat taatgggagt acatttatgt 360
ttctgcttta cgaatatgat attttt 386

<210> 33850
<211> 213
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-F5

<400> 33850

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gctgtaaaca tgcttgggaa ataattgggg acctggattt gaataagatt tgagttgttg 120
ggggcggacg tgctacatta ggccttggtc ggttattcct aatacccttc ggtgcaataa 180
aggaaatcat cttgcgcgtg accgagcgtg cac 213

<210> 33851
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-F6

<400> 33851

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gtaaggctct gcagaagaac ctagctgccg gagaattgct gtaccaaacac cagcataata 120
aaaggatgag ctgccccgcc atggcacagc tcctctccaa taccctgtac tacaagcgat 180
tcttcccata ttacgccttc aatgtgctcg gtgggcttga cagcgagggg aaaggatgag 240
ttttcaccta tgatgcagta ggttcctatg agagaaccgg ttacagtgtc caggggaacgg 300
gatctacttt gatcatgccg gtcttgagca atcaactaaa ataaccaagt cctctattac 360
tcctgtcag ggatgctgtc aca 383

<210> 33852
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-D9

<400> 33852

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cgcccagagga gattggagct ggtgaccagg ggcacatgtt tgggtatgcy actgacgaga 120
cccctgagct gatgcccctc agccatgtcc ttgccaccaa gcttggtgct cgtctcacag 180
aggttcgcaa gaatggaacc tgcccctggc tcaggcccgga tgggaagacc caggtgacag 240
tggagtaccg caacgagggg ggcgccatgg ttcccatccg tgtgcacaca gtcctcatct 300
ctaccagca cgacgagaca gtcaccaacg acgagattgc tgctgacctg aaagagcacg 360
tcatcaagcc agtcatcccc gaacagtacc ttgacgagaa gacaatc 407

<210> 33853

<211> 235

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-B6

<400> 33853

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gatttatcta cgacgtcgat actgattaca gattgttttg tattgtattt tacgacaatt 120
ggattttatt tgtttctaca tttgtatatt gtttgtgaga tgagagaaac ctcttcaagg 180
cgttgaacca aacgtacttt tccaacattt catatatatc ttaataatta cattt 235

<210> 33854

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-B8

<400> 33854

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gtagcgtcga cgtcgtcctc cctactgcat gccgcgagcg ttgccggccc ggcggtgagg 120
cacggtgacc tgcccaccct gcaggtgcca acgcacctcg gagtcgccga ctggacgcag 180
atgcaggacc cgtttcagct ggcgagcccc tggcaggacc acctcttctt ctctccctta 240

gct

423

<210> 33857
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-C11

<400> 33857

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ggcgacaagt gcattttttac ccgccatcag cacaatgcc a ctacccatca ctaatactac 120
aaccaccacc ctatgaacat gatcaaactc cagaatctgc tacatacagc atttaaatccg 180
ttcactatgc acccaactatt cgatctccaa ctctacccca accgctatca catttacatc 240
tacagtctac atttcaaccc tacatactct attctccatc tgtacattgc gtctctgcta 300
atccacgaaa actaccctac tta 323

<210> 33858
<211> 279
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-C12

<400> 33858

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gatacgagga gagaatgatt catgctgagg tatgctactt ctgtgtacag atgagatata 120
tcatatttcc aacctactcg ctagtatgtg tatcataata taggtgctga ctatatagaa 180
ttagactgct ctagtgagct tccaagaagt tcattcggtc caacagacaa gtatctttgc 240
cttgcaactt gggataccaa agctccaaca ccgcaccag 279

<210> 33859
<211> 205
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-C2

<400> 33859

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gctgtcttct gccgtcccg cggtttaatt tactagtgtg ttcgtcctat atgttttagca 120
gcagcagggtg tattgtgcgg gtatgtaatg gtattgcaac tatattgggt gtaaaacat 180
aataaatgtg ggcaaatatg caagg 205

<210> 33860
<211> 167
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-C7

<400> 33860

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ggtctaacac actttgcgtc gctgccaaac cgcccatcgt agcaactcgc ctgcacggca 120
ttcggcgtcg aagccggctc cgtcaagatc aaatactccc tgcaaga 167

<210> 33861
<211> 405
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-016-Q1-K1-C8

<400> 33861

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atggacgcgg tcgattctgt ggtggatccc ctccgcgact tcgccaagga cagcgtccgc 120
ctcgtcaagc gctgccacaa gcctgaccgc aaggagtcca ccaaggtggc agcgcggacg 180
gcgatagggg tcgtcgtcat gggcttcgtc ggcttcttcg tcaagctcat cttcattccc 240
atcaacaaca ttatcgtcgg ttccggctag gctcagggcg cgactagcat gggagtagtg 300
cgatactttt gagagcaagg gatagcgagg atcttggctt ttggaatagt attgttaatg 360
acattttttt tccggtggng tttctggaat aaatcgttga acgac 405

<210> 33862
<211> 312
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-C9

<400> 33862

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tgatgaggaa gaggaggaag ccagcgacgg tgagggccct acggcctatg ttcctgtcaa 120
ggttaccctt ctgcccgtcg ctgaagggtg cctcgtcctc ccgtgagtcc gtggtcgggtt 180
aaataaaggg ccgtatatga ttgcgagccc tgtgctctgc cgctattttc ttctcgtttg 240
tgtcttgctg ctctcggtgt gaactcgcta ctccagtgtt ctgcaatatt aagcagaagc 300
tattgtattg tt 312

<210> 33863

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-D1

<400> 33863

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gggtgagcgg atcgagatgg cggcgctcga tgttgagtac cgctgcttcg tcggcggcct 120
cgcctggggc acggacgacc actcccttca caacgccttc agcacctacg gcgaggtcct 180
cgagtccaag atcatcctcg atcgggagac gcagaggtcc cgcggcttcg gcttcgtcac 240
cttctccacg gaggaagcga tgcggaacgc catcgagggc atgaacggca aggagctgga 300
cagtcgcaac atcacgtca acgaggccca gtcccgcg 338

<210> 33864

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-D11

<400> 33864

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gaccaagtac tttggatgtg agcttggtgc acagtccaaa tttgatgaga agacagggat 120
ttccttggtt aatggggctc atgatactgc aaagctggct ggtctccttg aggtattcat 180

caagaagtat gtccaatgtt atgggtgtgg gaatcctgtg actgagattc tcattctcaa 240
gaccagatg atatcatcga aatgtgcagc ctgtgtgttc gtctcagatg ttgatatgag 300
ggtcaagc 308

<210> 33865
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-D12

<400> 33865

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tgaaattgca ttttagtttc ttgcgccttg ttgtttaaag ctcttcaact tattggcatc 120
atgaggaact gtcgtgagac atcaatggtc agagtccgac cataaccaca tatatagttt 180
taacaatgtc tcaagttttg tgttattacc tgttgtctgt tgtctgccat atgtaatagt 240
ttcctttcag aaggcaaaag cacttccttc ccaaaaaaaaa aaaaccaaaa tactcataaa 300
aacaacaaaag aacaacaaaa aataataaac tactaccacc 340

<210> 33866
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-D3

<400> 33866

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ctgctgtcaa tgattagaaa cggactatac tacaccccg agtacgaaac caaggatact 120
gatatttca cagcattccc attactact catatccaaa ctctcctga agaatcatga 180
gctgcagtag actgccaatc ttctactagc acatgtacaa ctgtatgcac tgatacactt 240
accagacttg atcgatacaa acgaccatgc tatcacatcg agcccgtttc tagggacca 300
tatcaatata tctgttatgt agcttattca ttatacctat t 341

<210> 33867
<211> 277

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cgcggtcctc gt 252

<210> 33870
<211> 317
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-D8

<400> 33870

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gagagcgggg aggaagaaaa accgatcgat ggcgctcaac tacgtggaca cgacggggcg 120
ggagggacgg ttccacggcc ctacacagcca cagcaccagc acgaccccga cgggcggcgc 180
ggcggcggcg gcggcatcgc cgcgcaactt ccggcgccgc ttctcctccg cgtcctccgc 240
ggtccacagc cactgcggcg gcggctgtgc caagtgcgtg tgcgcgccct cgacccacgc 300
cgggtcgttc aagtgcc 317

<210> 33871
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-B4

<400> 33871

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gggaccggcg tcgagccctg cttegcgcgc cccttcgtcc ccgtcgccgc gatgaagcgc 120
gcggcagcgc aggcctagct ggcttgccgc gatcgacgac aggcagagtt ggttaccgct 180
gctacgacgc ctacgcgtga cgcctgaagt gaatagactt gcttcgctcg tgcgatctc 240
ggcatgtagc agcgaatcat catgtaggac agggggcgct ctgcgtgtgg tgcccagccc 300
cagtgaacaa tggcatatag aacactccag tgactgtact taaatcttat ggaacttggg 360
tctgctactg ataactaatg aaccaatgtt ttc 393

<210> 33872
<211> 334

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-015-Q1-K1-H3

 <400> 33872

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 cgcccgcgag ccgtcccgcg tgttcacgtg caactactgc cagcgcaagt ttttcagctc 120
 gcaggcgctg ggcgggcacc agaacgcgca ccggcgggag cgcacgctgg cccggcgcg 180
 gctgcggtc gacgcggcg gcccctaacta cggctacggc tacggctact acgccgacgt 240
 cgcgctccctg ccgctgtacg gctcctgctt gtaccccatc ggcatccagg cgcacgcgtc 300
 ggcgggcagcg cttccggagc acgaggacgc gcgc 334

<210> 33873
 <211> 215
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-015-Q1-K1-H6

 <400> 33873

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 cactgatcag aatcaccgca tgcacactgg aatcttgact tagaagcgtg catgcggtacc 120
 ccttgacaca agaactccta ccgattggct tttcaacaaa tcacaatgac cacttgaggc 180
 aatcaactgt tgctctagga ctaggtggat ttact 215

<210> 33874
 <211> 281
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-015-Q1-K1-H8

 <400> 33874

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 aattcagttg taacatttct gatttaaagt aaagatacat ctgaaagttc aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaataataa aaaacaaaag aaaatttaac ccactggctt tttaaccaa cgcaatgaac 240

aaattgtgtg aattaaacag ttactttcat actatgggtga a

281

<210> 33875
<211> 273
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-A1

<400> 33875

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aaggaaataa ttaaaaaaat aaaaagatca taaaaaaaaa aatatataaa taaaatataa 120
taatataaaa aaaaattgaa aaagaaatct actaagtata aatattatga cgaataaaaa 180
aattgtcaaa gctacataaa atctgtactc attgtataaa tactaactta tttaaataa 240
cgtttatgaa cataaaattt attatgttaa aaa 273

<210> 33876
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-A10

<400> 33876

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gcggcatcgg gcccgtcagc tggatgtacg acaggaccag ctaccggaac tgcccctgca 120
ccagcctctc cgggatgctg accgtcagct ggttgtgccc catgtccatc gaccgcacgc 180
tgggcaggtc ggcgaacgac tcttgatgc cgtgcgtgag ctggctgctg gagaggtcca 240
ccgagtcgag gccgaacatc ctctccaggg acttctggat cgcgccggac acctaggtgt 300
gggagacagt catgaactgc aagttggaca gcgcgtgcag gcacgccgtg atggggcccg 360
tcagccct 368

<210> 33877
<211> 200
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-A12

<400> 33877

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gggtaatggc accctacaac tggatcatca tcaggaacac agaccgcgac tggagttgca 120
gactgcgcat ctacatgcag cattctttgcc gagatcctca tagatccata ctacccgatg 180
ctaaacaaca tcctgaacta 200

<210> 33878

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-A3

<400> 33878

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gggagaactg gcacctaccg ccagctcttc caccctgagc agctcatcag tgggaaggag 120
gatgcagcca acaactttgc ccgtgggtcac tacaccattg gcaaggagat tgttgacctg 180
tgccttgatc gcatcaggaa gcttgccgac aactgcactg gtctccaggg cttcctcgtc 240
ttcaacgctg ttggtggagg aacgggctct ggccttggtt ccctcctcct agagcgcctg 300
tctgttgact acggcaagaa atccaagctt gggttcactg tgtacccttc cccccaagtt 360
tctacttcgg ta 372

<210> 33879

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-A4

<400> 33879

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atgatgcac caacaacttt gcccggtggtc actacaccat tggcaaggag attgttgacc 180
tgtgccttga tcgcatcagg aagcttgccg acaactgcac tggctctccag ggcttcctcg 240
tcttcaacgc tgttggtgga agaacaggct ctggccttgg ttccctcctc ctatagcccc 300

tgtctgttga ctactgcaga aaatccaaac ttgggttcac tgtagacccc tttcccccca 360
at tt 364

<210> 33880
<211> 247
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-A5

<400> 33880

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gataggtaaa tataaagacg tagcgaatga aaaaagaaaa catctattat gtacgtccaa 120
catattctgt taactaacca gccattata gtcattgcta ctaattatag agcgggtcatt 180
tctctagtag tacttatgtg catcgatagc ccttaatgct tgcacggccc ttaaactgac 240
gttatgc 247

<210> 33881
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-A6

<400> 33881

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tgcgcgaga tgtaccaggc cgagaagctc tgcctcaaca tgcacttcta gctgttggtg 120
gtcaagaact gtctgaggtg cagcctcacg cacacattgt gccttggcct caccagtggt 180
ctggcgtagg agggccgatt ctggtggact tgggcatgga gaaacacaac tgcacaatga 240
tgacgaggtg gcttcgaccg aggccttctgc ctctactgct cctgatttgt atggtaaacc 300
aagaacctgc aaggatggat ggagcaattt attatctgtg gactctgtta tggatggatc 360
agttgc 366

<210> 33882
<211> 173
<212> DNA
<213> Zea mays

<223> . Clone ID: LIB3068-016-Q1-K1-A7

<400> 33882

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atcatcaatg ggagagctct cacatactcc eggctgttac accctgacta aataatcact 120
tctaactatt atgcatcacg acacactctt acctgcatca ctaaaacaca cat 173

<210> 33883

<211> 259

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-A8

<400> 33883

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catagccatg gtgcggcgag cctttgcggc gcgaggcgct agcggtcggg ctgctgcggc 120
accggacggc gcctacgcgc cgttcgggtcc cgtggcgatc ttgctcctgc ggtggccgga 180
ggcgccgggc ggcatcgcgg cgttcgggtgc gcgcagggcg ccagaaccgg ccggcagagc 240
actgcacaac gcatactac 259

<210> 33884

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-A9

<400> 33884

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gtcgattaca ttttcacagt gggagcttct tcaattatga atgcttcttc tgaaattctt 120
gtgaacttag agaaattgct agatgagaaa tcttcagagc cttggagtca gcaccgtctt 180
cccacaatga cagctaccta tcttgctgtc attgacagtg atgtagagga agatgaagca 240
agagaattcc ccaagaccgg taaatgtggg aaatctgcat caaggccatc tgcgatgtct 300
agtgatgaca gcttccttca gaaagactgc accgctgaac aagccgtctc taagcagatc 360
agagcacttc gcaagaagct gcaacagatt gagattctcg aggctaaaca acttgcaggt 420

catcagcttg acagtcagc

439

<210> 33885

<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-B1

<400> 33885

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tgctccaaaa cgagatgttg ctcagattga acaaggtctt atcagtgttg aaaaggatgc 120

ccagcagcgt cctaggggaat catctacacg aaggaagcca gcttcaccac cgcggaacg 180

atctccaaat cgaagggctg aatcgcccac gcgtgcacct gacccatcac ctaagcgtcg 240

tcctgattct acgactattc gtcgccgacc agatccttct cctgtcaagc 290

<210> 33886

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-B10

<400> 33886

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gatgggacaa ccacttcggt tgtccttgct caagggatga ttactgaggg tgtaaagggt 120

gtagctgctg gtgctaattc agtgcagatc acccgaggta ttgagaaaac agccaaagca 180

ctagtcagtg aactccaaaa gatgtccaag gaggttgagg acagtgagct tgctgatgtt 240

gctgcagtta gtgcgggaaa taactatgaa attgggaata tgatagctga ggctatgaaa 300

aaggttgggc ggcagggagt ggtcacactt gaagaaagaa agagtgtgta aaataacctc 360

tattctgttg agggaaatgca gtttgaccgt ggctatatatt ctccctactt tgtgactgac 420

agtgaaaaaa tgacagtcga gta 443

<210> 33887

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-B11

<400> 33887

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gtcctacttt cttccacagc agaaggaaac ttgagtcgtg agcgcagtgg tgcaccaat 120
ccacaaagag ctgagggttag tcagccatgg cggcacgcgc gaccgaggac tgcggctggc 180
tgctgtacct ctccctggcc gacaaatgcg gcgaccctag ccgcctgctc ggcttggcgg 240
cggctcttcgt cggcgccctgc gtcgtaacgt cgctcctgca ctgggctgtc ccgggcccgc 300
ccgcctgggg gcggtactgg tggaccaggc gaggggggct gggcatcggt cgggccgcca 360
tcccggaccc ccgggccctg cagtgggtccg cagcatgggg ctgatg 406

<210> 33888

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-B12

<400> 33888

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gagatctgct atctttggca tgctatgggt tctccttggg aaacgcgtgt ggttcttccc 120
caatataaat gcggaggaga caacttttag agaactcggt cgcttttggc ctgaatagga 180
tgtatgagtg cggccaaagt ggacatgaag acttttttat gcccttggtg ctctatcggt 240
gatattactg cttaggcatc atgctcctga cgtagcagct tgagccaggt accaaaagaa 300
ggtttctaac ataatctatg acgatcttga atggctctccg aagttagcta tgtctggaat 360
gatcgaaaag cacactgctg ctaacatta 389

<210> 33889

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-H2

<400> 33889

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ggattatgct ggagatctga gagtagcagc ttcaaattgg aatggaaaag gctctttcct 120
 attcacctcg agtactgctg tgtatgactg cagtgacaat ggattctgca gtgaggattc 180
 tccttggtga cccattgggtc aaagcactcg tactgatgtg cttctaaaag ctgaaaatgt 240
 tgtccttgag gcaggcgggt gtgttcttag gctagtagga ctttataaat cagatcgggg 300
 tcctcatgtt tactggctgt caaaaggaac cttggatgtg cgtcctgac atatactcaa 360
 tctgatacat tatgaagatg cagcctctct tgtaatttcc atcatgaaaa agagattacg 420
 gagctgcac tttgtgggtt gtgac 445

<210> 33890

<211> 118

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-B2

<400> 33890

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 aatgataaaa aacaaaacgt taaatcaaatt tgtaaaatgt cttacaaatg ctttaaaa 118

<210> 33891

<211> 374

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-016-Q1-K1-B3

<400> 33891

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 gtcagacacc ttctagattg actgcactcc ctccaagtag agaagggtgc ctggagatat 120
 atttggttaag tggagaaggg gaaaaccgta cagttcacta canaaagcta agcgtggcctt 180
 gaaatctgca tgggtgcttct tgtcgattat taattattca atgatatagt acgaagttat 240
 acatagatgc gtatgtgaga cccaatgaaa ccaaatttag atatntggca taccatgctg 300
 ttcttctgcc aaaaagatgc aacgctcttc ttacaaaagg tctctctcta gtggtgaagt 360
 cttagtggaa ctgt 374

<210> 33892
 <211> 337
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-015-Q1-K1-F3

 <400> 33892

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 acggcctccg gggctacgcc gcgcccaggt ccgcggtggc ggcgctgccg tccgtgaggg 180
 tgggcaggaa gaggtcgctc tgcagggca tccgtgcga ctacatcggc tccgccacca 240
 acctgatcat ggtgacgacg acgacgctga tgctgttcgc ggggcggttc gggctggcgc 300
 cgtcggcgaa ccgcaaggcg acggcggggc tgaagct 337

<210> 33893
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-015-Q1-K1-F4

 <400> 33893

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 tccctcgccg tgtaccagga cttctgcac gccgacctat ccgccgccgc caccgccggc 180
 ggctacccgt gcaaccccc gaaggacgtg accgccgacg acttccacta tggcggcctc 240
 gccacccccg gcacggcgct gaaacccttc aagatctccc tgggctcggc cgtcgtcacc 300
 acgttccccg gcctgaacgg gctgggcac tctgccgcgc ggatggtgat ggtccccggc 360
 ggcgtcgcgc cgctgcactt ccaccggga ggcaccgagc tcattctcgt catcgagggc 420
 agcgtcgtc 429

<210> 33894
 <211> 365
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-F6

<400> 33894

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cgacgccgag cttgttgtac aacgcgtggg tggtcgtagc ggacaacatc gcgcacatat 120
gtaagcctgc cgccatctct gtacgtgatg acgttaaacg gcgtcagcac gcagtgcattc 180
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gtgacctaca cgctcctgta cgctgcaag gtcgtggtgt gctccaccat gcgactacac 300
ctgctggatc ctcgacagcc tgtgcatctc gcttgagatg atcgtgaagg tgccctacga 360
cttcc 365

<210> 33895

<211> 201

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-F7

<400> 33895

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gacacctgcg ttatctcata acagatgtgc tctcccagcc aaactcccca cttgacaatg 120
tcttgcgctc agatcggccc acataggccg gtccttgctg tcaaaacgag aggcggtgcc 180
cagctaagga cccacggaat a 201

<210> 33896

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-015-Q1-K1-F9

<400> 33896

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ggatgatgag agaaaggctg cattggctgc ccagtttgca gcagaagcaa ctttgccggag 120
agtacatgca gccagaaaag atgatgacat gccaccaatt gaagccattc ttgcaccact 180
tgaagctgag ctaaagcttt ctcgccagga gattgcaaat ctccaggatg acaacagagc 240

tttggatcgt ctaacaaaac aaaaggaggc agctctgcta gaagcagaga ggactgtgca 300
aattgctatg gcaaaagctg ctatggttga cgatttgcaa aacaggaacc aagagttgat 360
caagcaaatt gagatctgcc atgaagaana taaaatctta gataagctgc atcgccaaaa 420
gattgcagaa gttgaaaagc tt 442

<210> 33897
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-G1

<400> 33897

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cggcgagctt taacgcctcc gactttaccg ccgaccccaa ctgggaggct gcccgggcca 120
cctggtacgg tgcgcccacc ggcgccggcc ctgatgacga cggtggtgcc tgtggattca 180
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aggacggcaa gggctgcggc tcctgctacc agatacgtg ccagaaccac ccagcctgct 300
ccggcaaccc ggagacggtg atcatcaccg acatgaacta ctaccccgctg gccaaagtacc 360
ac 362

<210> 33898
<211> 120
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-G10

<400> 33898

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tatgggaaaa aaaaacataa aaaaaaata caatagtcct tgctctgttc tggttccact 120

<210> 33899
<211> 456
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-G11

<400> 33899

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tgctccagcc ttgagaccat cgtgaagtgc aaggaagctg aggcgaaact gttccagaaa 120

ctggccgatg atgccaggaa ggaggtagac agctaccggc agatcgctcg caccaagacc 180

cagaaactag aggaggagta cgccacgaag gtggcaaagc tgtgcttcca ggagacggag 240

gagaagagga ggaagaaagt tgaagagctg aagacgctcg agaactcgca ctacgactac 300

cacaagatga agctgcggat gcagaccgaa atccagggct tgctcgagcg gatggaagcc 360

acaaagaaga tgtgggtata ggctcctgtt aacaatttca tgttgctgct gcttaatgtt 420

tcggttatag actccagcta acaactgcct gatgct 456

<210> 33900

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-G12

<400> 33900

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agaggtttca tatattctat tccaacatat agaactatta tattacaaat ggcaaaccga 180

accttcataa gtacattgag gaagtgtaca cgattgatgc atacacacag actatacatg 240

accacatct tttacttgat catacatata atcatcttgg gattgcttta aaccttgctg 300

cctatgatga ctc 313

<210> 33901

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-G2

<400> 33901

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cagatccagt taaaattcaa gctattgccg agtggccagt gccaaactgt ctcaaggatt 120

tacgcagttt tttgggcctt gccggctact acaggaagtt tattaggcat tttgggggtca 180
 tttgccagcc cttgaccgct ttactgaaga agggcagttct gtttgtttgg acaaagtatc 240
 atggtattgc atttgacact ttaaaaaagg ctttggtgac agtcctctgtt cttgcattac 300
 ctgatttcac tgctgctttt atcgtggaaa ctgatgctag tgctgacggt gtgggtgcag 360
 tcctcatgca aaaagggtcat cctctcgctt tgcttagtaa ggccctgggt cccaagtcta 420
 agggattgtc aacatactaa aaatagtact 450

<210> 33902
 <211> 199
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-G3

<400> 33902
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 gcggaaacag cgcggcgggc gcgacggaga acccgcccc gaaagccgtt cttgccgaag 120
 acacaagccc ttcaacgggg tcggtttcaa acttccctac accttcaagt ctttcgatct 180
 ctaggcggtg tttatcgag 199

<210> 33903
 <211> 382
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-015-Q1-K1-G5

<400> 33903
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 ctgcaggatc cagcaggccg aggaaggagt cagcggcggg ccggagaaaa tgagcggcaa 120
 cggcgcaag aaggtggtcg atgcggcggt gaaggccggc aggacgatca tcgactggga 180
 cggcatggcc aagttgctcg tcaccgacga ggcgcgcaag gagttcgccg ccctccgccg 240
 cgctttcgat gacgtcaacc accagctcca gaccaagttc tcccaggaac cccagccgat 300
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382

<210> 33904
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-G6

<400> 33904

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gactctgtgc cctgggtggc tctttctggt gatatttatg acggtgtact tcttcgttgt 120
gaggcgcaag tggtcgccgc actttctgag gttccatgtg atcctagcga tccttctaga 180
cactggctcc caagcagtgg ccaccatgtg tacctggatg ccaagcatcg tttatcaggg 240
gaagccaatg cagtacttct ggatgtctat cgcgttcata cagatcttca cagtgtctga 300
gtgtttgcgc tgcgtctgtg gtggaatgta tctaatgtc ccattcatat cccacaccgc 360
tttcattcac tctgatctga atctgttcag gtaggtgctt actacataag gtccaggact 420
caaggaaaga tttcggaatg gctacttaca gtt 453

<210> 33905
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-G7

<400> 33905

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tgggtatgat ccatgagggg gtgtaactag tcatatttat gacggagAAC ttgatcggta 120
gcaggcccaa gaaggtggtc gacgtttctg atgatgcatg tgagactatc aatgactgta 180
aacacttggt caaatgatc ggcaaccacg agtacctcaa tgacatggat ggcctatgac 240
gggctgtcaa tgacgtactt caggatgtct ataccaagtc atacacagta tccacagtgc 300
tatagatgt 309

<210> 33906
<211> 164
<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3068-015-Q1-K1-G8
 <400> 33906
 caaagggttc cagcggaggt ggagatgggt ttgaagtcac aaagtttggg catggtcgtg 60
 ttgcacttat tggatttccc agtgttggaa agtcaactct tttaacgatg ttgactggga 120
 cacattctga agctgcatca tatgagttca caacgcttac ttgc 164

<210> 33907
 <211> 462
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-015-Q1-K1-G9

<400> 33907
 aatccccgtg ctgagagctg agtgctgcct tggttgctcc gtactggact cgattgctca 60
 tcgcagcaga agcatcccggt cccctccgct tctccttgct ctgctctggg aacacacaga 120
 caaaaaaaaa aaatagcatc atgtcggagg tgaaggactc caatgtgcct gctgcacttg 180
 atggaaatcc tcaacctatg gaccaaactg aagacaattc tatgccctca gcacagcaac 240
 aggaagaagc aatcaagaag aagtttggag gactaatgcc caaaaagccc ccaactcatct 300
 caaaggatca tgagcggggc tactttgatt ctgctgactg ggctctaggg aagcaagggtg 360
 ttgccaaaacc caaaggaccg ctggaggcac ttaggcccaa gcttcagcca acacgccaac 420
 aacagcaaca acgtgcaagg cgccctatct acacttcgtc ag 462

<210> 33908
 <211> 457
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-015-Q1-K1-F12

<400> 33908
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 cttgaatctg agattacca agacgccact ctgaagctgc tacattcact ggatccaatt 120
 aaaaataagg acaccaagga taggggcaca ttacatctta aggtaaagta ccaccccttt 180

acaaaggaag agcagctgga agccctagag atggaaaaac aagccataga ggagaggaag 240
 cgtctgaagg aggctgggat aattggtagc acaatggatg ctgttgggtc tgggtgttga 300
 tttgtgggta ctggcattgg cgctggcctc ggtttcgttg gttcaggaat tgggtgctggc 360
 gcaggccttg ttacctctgg tattggtgct gtcagcagtg gccttggtaa agccgggaag 420
 ttcattggga ggactgtgac agggcctttc agcatgt 457

<210> 33909
 <211> 270
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-H1

<400> 33909

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aataaaaata taaaaaaaaa aaaaaaaaaa 60
 aaaggaaaaa gaaaaaaaaa aaaataataa aaatacaaaa aaaaaaggcc cgcctttttt 120
 acgtttccat gccttggggt tgccttcttt tggcttccag gttttttttt gcggtcacct 180
 aactcccttt ttctgttctc ggggtcccaa ctttacttcc tgtgaccctc cttgtgctac 240
 cctccttttt ggaatctcct gtttttcccc 270

<210> 33910
 <211> 357
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-D2

<400> 33910

acgcccacgc gtccggcagg tggtagcttt gatgtgtccc tcctcaccat tgaggaagga 60
 atctgggagg gcaaggccac agctggtgac acccatcttg gtggtcgagg actctgacaa 120
 caggatggtc aaccacttcg tccaggagtt caagatgaag aacaagaggg atatcactgg 180
 caaccccagg gctctccgga ggctgatgac cgattgtgag acggcgaaga ggactctgtc 240
 tttgactggc cagaccatga ttgagattga ctcgctgtat gaggtcatgg acttatactg 300
 caccattacc cgtgccaggt ttgatgagct caacatggac ctgttcaaga agtgcac 357

<210> 33911

<211> 136
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-015-Q1-K1-D3

 <400> 33911

 gttctagatc gcgggaggcc gctcgcatc tagaaccac tccgcttttg cttggttcca 60
 gtgggacggg agaggagaa gctagctagc tagcagcagc tctgttggtg tgtgcgtcag 120
 tgtgggtgtg gaggggt 136

<210> 33912
 <211> 261
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-015-Q1-K1-D4

 <400> 33912

 cccacgcgtc cgaaaaagaa aaggcaaagt ctaaggaatc ccaatcaggc aagcaaatg 60
 aggaaccggc ttctgcagag ttcggagatc tcatctcatc tgatctctca ttttcgacct 120
 gctaatcctc ctctcatttg catacaatat actttatttg aacctcttcg tatctcattt 180
 ctcatcatct ccttcatcta ttcattatag actatttcct tataacttta ttaacctatc 240
 ttacacttca ttataggatt a 261

<210> 33913
 <211> 340
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-015-Q1-K1-D5

 <400> 33913

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 gcgggaacat gaaccctcg taggtctggt ccacgtagcg gcggctcttg tagtgccaga 120
 agccgaggac cggctcgggtg tcgccgagga cgccggcctn ctccagggcc tcgcgccggg 180
 cggcctcgtc catggactcg tccacctccc acccgccctt ggggaacatc atgccgtgcc 240
 ccttctggga cgtgatcgcc agcaccttca gctcgccgtc gcaccgcacg cggtacggga 300

tgcagcccac cacgatgcgc ccgccggtgc tctggctgta

340

<210> 33914

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-D6

<400> 33914

ggaaaatgtg tacatggcga agctcgtcga gcaggcggag aggtacgagg agatggttga 60
ggatcatggat aaggtagcca agactgttga ctccgaggag ctactgtgg aggagcgaaa 120
cctcctgtct gttgcataca agaacgtcat tggagcccg cgtgcctcat ggccatcat 180
ctgctccatc gagcagaatg aggagggccg aggcaatgag gaccgagtta cactcatcaa 240
ggattatcgt ggcaagattg agactgagct gaccaagatc tgtgatggca tcctcaagct 300
gcttgagacc catcttgtgc cgtcttgcac tgcccccgag tccaatgtct tctatctcaa 360
gatgaagggt gattactaca gatacctcgc tgagttcaag ac 402

<210> 33915

<211> 477

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-D7

<400> 33915

cgtctcgggt cggaggatcc caggccgcca cgaaaatgcc acttcggtgg tattctaccg 60
cgtcgttctg aaccgagaag gacgacggtc atgtctcttg agggagatgc atgaggctcg 120
ggtacccccg ctctacaaca tcaagggtt tccttgcttg tcatcgagtc ctttggtttc 180
tccagccaac tgaggggccg aacctctggt caggcgttcc ccagtggtg ctttgaccat 240
tgggacatga tgggctcaga tcctttggag gccggctccc aggtgctca gctggtgctg 300
gatatccgca agaggaaggg tctcaaggaa cagatgaccc ctctttctga gtttgaggac 360
aagctctaaa atttttgggt gttggtgata ctgtttcatc tgccggttta atcatcaatt 420
cgtctactgt aatagcagcg acttcaatat tttattttgg tttagttgct aaatgca 477

<210> 33916
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-015-Q1-K1-D8

 <400> 33916

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 ggcattccaca aaatatgcct cagcacacaaa caatttttgca ggactaagggt tctatttgggt 120
 tcgcgggctaa ctgcgcctaaa ctttgcctaa gtttagttgt ttgaattgaa taactaacct 180
 tagaaagaaa agttaggcaa agtggttgcga gttatgcac gaaccaaaca ggccctaaat 240
 gttttgaaac tgtatatatg aagcctgttg atggccactt ctaggtagct gggatgatga 300
 atgcattttc aagcacattc tgtttggtgg tgctgccaat gatgcgttcg gctcggccgt 360
 tctgggagaa gtgtacgggc acgagcgacg caactggatg ccatgggtga ggaatgag 418

<210> 33917
 <211> 368
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-015-Q1-K1-E1

 <400> 33917

 tcgatgacgc atgggcggac gcgtggtttc ctctagtcgg cggtgccaag aggtggagga 60
 gggcgtgatg aagtcggcg agcgggcgaa gcagatgcgg ggcgtccggc aggaatctct 120
 gcggttcctg cttctggtca tcgtcgccg cttcttctc ctcttctga cttcgtcgt 180
 tatctacaag cccgattcca tctgtccag cctgaacggc aagctgccc tggaccatgc 240
 gccgacgtcc atcctgattc atcagaaggt taactcgccc cccgccaccg cacttgagac 300
 cttcaccgac gcactgcgtg gagaccctag agtggtcgat gacgaagccg atttatgacc 360
 acaggggt 368

<210> 33918
 <211> 177
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-015-Q1-K1-E10

<400> 33918

cgcccgccgt gttgtgcgta cgtacgtacg tatacatgta tgtatgtata tgcgcgcgtg 60
tgatgcacga ataagcgtgg ctacgtaatc tatcgtatgt atacgtgtgt gtagcatgt 120
gcttgtgtat gatcgtggta cgaggaccga aaaaatgtat gcaactctga tttactt 177

<210> 33919

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-E12

<400> 33919

tctcacgcct tgtcttgccct acctttttac gtttacatat atacaattat atctatgcgt 60
ctgttccacg caaaaccaag actacactga ctattacaag cttactagca tgcatgcata 120
atcattatta taataataat aataaaacta tctcactgat ccactttgct ctacctctat 180
caataatgaa acaactgtat ttaccttcat tacttaattg tgtatgcttt tactcctact 240
ttccgatttc atcatgtctt taacatctca ttaattcact atatttctat aacaaataat 300
tttatpaaag gtcgatcact ctatattatc caatcttact tactcttaca ttcaacgtta 360
tatcttttat ataatttaat ctaaatt 387

<210> 33920

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-E2

<400> 33920

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tgtgagaggg aagtttttaa tagccagtag cttcaaattt cctacaaggg ggcagattgt 120
ttctgttaac tcaatctaac tcaaaattcg aaataacact ttggcctaaa ttaatcaagt 180
tttgtgaatc aaccaattcg agcataggtc aagggatcaa gatttaagca aatgtttaat 240
cgtatcgagt tctatatact tattaagcac ttacctcata tatgaagggt ccaccaggta 300
ctcaaagtgg agtggaagga gggccatggg attttttttc cttaaaactt cttaagtagt 360

gttgcaaact cagggcctct tggctctgga ctaagcacia aagccttaaa ttg 413

<210> 33921
<211> 285
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-015-Q1-K1-E4

<400> 33921

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tgctagtctc tccccccagg cccagcccc ccattcctgc ctcttctctc tctcgccac 120
ccgccccggc cccaatgtcg ccgcccctcg agccccacga ctacatcggc ctctccggcg 180
ncgcccggc gccgncgacc ccgacctnet cctcgctgctc ctgctcctcg ccggcgcccc 240
gcctcaccct tcgnetcggc ctgcccgggt ccgagtcgcc cgacc 285

<210> 33922
<211> 354
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-015-Q1-K1-E5

<400> 33922

cggacgcgtg ggcggacgcg tgggcgcctc tagtcggcg ggccaagagg tggaaaagg 60
cgggatgaag tccggcgagc ggccgaagca gatgcggggc gtccggcagg aatctcggcg 120
gttccggctt ctggtcatcg tcgcccgtt cttctcgtc tcctgacct tcgtcgtcat 180
ctccaagccc gattccatcc tgtccagcct gaacggcaag ctgccggtgg accaggcgcc 240
gacgtccatc ctgatccagc agaagggttaa ctgcccccc gccaccgcac ttgagacctn 300
caccgacgca ctgcgtggag accctagagt ggtcgatgac gaagccgatt caag 354

<210> 33923
<211> 280
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-E6

<400> 33923

cgactctaga gcgatccaag gccttactta cgtcgtagca tgtcgactgt catatgcttc 60
ttctatagtc gtcaccgtag aattcaatgt cgactggcac gtcgctttta cacagcgtcg 120
tgacatgtgg aaaactcctt ggcgttacgc cataacttaag tcgcccttgc atgcacattc 180
ctccctttcc gccatgcttg gcgtaatat gcgatagagg cctcgcactc gatctgcca 240
ttcccaacaa gtttgcgcag ccctgaattg gcgaatggga 280

<210> 33924

<211> 63

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-E7

<400> 33924

gttaactcca caaggacagt cgatgggtact ttgattcaca tctcagcccg gttccgttgt 60
gtg 63

<210> 33925

<211> 401

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-015-Q1-K1-E8

<400> 33925

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cgtggtgtcg tccgtcgccg ctttcgccgc cgccgaccac ggcctcacgc acatccacct 120
gtacgtgcac gagacgtaca ccggggcgaa cgccacggcc gccgccgtgc tgcagtcccc 180
gctgggcgcc aactcgtcgt tcggggagcat gggcgtgggtg gacgacgaga tacgcgtggg 240
cccggaccgg tcgtcgccgc tcgtcgccgc gtaccagggc gtctcttcgg caccgagcgtg 300
cagctgggcg ccggctacct gtcgtccatc acgctggtgt tcaccgncgg cgagtacaac 360
gggagcacc cgtccgtgca ggggcccctg ctcggttca c 401

<210> 33926

<211> 457
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-015-Q1-K1-D12

 <400> 33926

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 aagggcattg atcattacat ggaatcctat taagatatta tatgaaagtc gaatttcttc 120
 cattctcatt tgagaatgcg aatacaagga ggtattttgt gttcgggaaa gtccgaagaa 180
 aaaaggattt ggaatctacc ttttcttttg ctttttccct tataaaaaata actcaatcaa 240
 aatccaatta tctactctac aagaatgaaa tgcttggtat gcctaataata cttagtttaa 300
 cctgtatctg ttttaattct gttctttgtc cgactagctt tttcttcgcc aaattaccgc 360
 aagcttatgc cattttcaac ccaatcgtgg atgttatgcc tgtcatacct gtactctttt 420
 ttctattagc gtttgtttgg caagctgctg taagttt 457

<210> 33927
 <211> 409
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-015-Q1-K1-E9

 <400> 33927

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 catccgagcg aacaagccaa ccgaccccggt cccaaggca atccgccgcc gacgtaccac 120
 caccaccgca ggagcgagat ggagatgaag aggatcctct tcgccgtcct cgtcgtcatc 180
 gccgcctcgg ccaccgcagt gctggcctcc accgaggccg ccgccgcggg cgccccaact 240
 gcctccgagt cgteccgcga ggctcccgct ggcgctggcg ctggcgctgc cgctggcgcc 300
 gccgccgcgg ggccctccgc cagcagcggc gcgccgccgc tcgccgccgc gcccgccgcg 360
 ctctctttct cctcctcgc ctactacctc cactaagcgt gtgcgtgcg 409

<210> 33928
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-F1

<400> 33928

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 ggtggcaggg ctgccagctt taacatcatt cccagcagca ccggtgctgc caaggctgtc 120
 ggtaaggttc ttcctgaatt gaatggcaag ctcaactggca tgccttccg ggttcccacc 180
 gtggatgtgt cagttgtaga cctcaactgtc agaatcgaga agggggcctc ctacgaggaa 240
 atcaagaaag ctattaaggc cgcttctgag ggcccactca agggatatcat gggctacgtg 300
 gaggaggatc tggtttccac cgacttcacc ggtgacagca ggtcgagcat cttcgacgcc 360
 aaagccggga ttgccctgaa cgaccacttc atcaagctcg tctcgtggta cgacaacgag 420
 tggggc 426

<210> 33929

<211> 132

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-F11

<400> 33929

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 taatggataa aacaaaaaaaa cccaaataaa aatgccatt tttcaaata accaattttt 120
 ccgaaaacaa ca 132

<210> 33930

<211> 249

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-B6

<400> 33930

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 ggcggggcgg gagcctgctt attcaacggc gcggctgact gcttcttcga ctacgcggat 120
 gcctgctgca gacgcgacgc ggcagcctac cggtcgaacg gatccgccga cgaacggatc 180
 tctgcgctt gatacatctt ttgcacggc actaccgatt ggaccgatct ccgttgctg 240

gtatatcct

249

<210> 33931
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-B7

<400> 33931

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acaagagaca aagcagggca cggacaatgt ccctcgctc ctcgtcctcc gtcgctgctc 120
ctgctcctgg ccgccgactt cgctatcatg agcgccaaca cgaccacctt caccatcacc 180
aacaactgct ggttcaccgc gtgggtccgc gccaccccg tgggcgccgg cactcagctg 240
aaccggggcg caacgtgtac cgagaacacg ccctacgtca ccagctactg ccccggtgtag 300
tgccgcaccg gcatgctcct taaca 325

<210> 33932
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-B8

<400> 33932

aaaaaaaaaaa aaaataaaaa tataaaataa ataaaaaaaaa taaaaaataa taaaaaggga 60
agggaactaa ttattaaaca aaacaaagg cctgccttat ttagaggact ccaggatttt 120
ctgttcgccg tacccttacg acggccatac tatttggtat agcggatctc tattcgaatt 180
gatttcccggt gctttatcaa tctttggctt gcgaactccc tgggtggtcg atcttttagtg 240
ccttggatat acttcgcctt ttggcttgct tctttatcgg cgccgaggcc tgatcc 296

<210> 33933
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-B9

<400> 33933

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 ggaccaggtg cgctggcaact accactgggc cagcccgtc cactacgcca acacccccca 180
 agtctgcaac ttcaagtttt ctcgggactg ccacaattct cgtggccagc aagggatgtg 240
 cgtcgtcggg gctatcaaca actacacgga ccagctctac agctacggcc agaagacttc 300
 gtataacctg acggagagcc tgatgttctt ggcacacttc gtcggcgacg tccaccagcc 360
 gctgcacgta ggcttcgaag atgacgaggg cggtaacacc atcaccgtcc actggtaccg 420
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<210> 33934
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-015-Q1-K1-C1

 <400> 33934

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 gtgaacgtgc cgtcgtcgtc cgccttcggc gaggcccgcg tgacgatgcg caagacggcg 180
 gcgaaggcca agccggcggc ggcgtccggg agcccgtggt acggccccga ccgcgtgctg 240
 tacctgggcc cactgtccgg cgagccgccg agctacctga cgggcgagtt cccgggcgac 300
 tacggctggg acaccgccc gctgtcggcg gaccgggaga cgttcgccaa gaaccgngag 360
 cntgaggtga tcccactccg ctgggccatg nctggcgcg cggctgcgt ctttcccg 418

<210> 33935
 <211> 171
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-015-Q1-K1-C10

 <400> 33935

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 tcgtactact acaacttctt tatctttcaa cacatcttcc atcccatcca catttcccac 120

atcataactaa tttaccacct caacatcccc tacaatccct ccttttacac c 171

<210> 33936
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-C11

<400> 33936

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tttcatgtca catgcaactt gaagcatgcc tacctgcttg gttaaccgcg tgtcagcagc 120
aacgatggag ttcaaggcag tggatcttcc actagattat tttgcaaaag ggcctttgct 180
gggggttttta agggaccaaa tgcactggga accattcctt tggaaaagct tttcttctct 240
ggtggggaaa atttctgctt ggcctgaagg ctattgccg ttggccaaag tgtgaaagac 300
tactagaagt gtgctgatag cgtatttact tgc 333

<210> 33937
<211> 248
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-C12

<400> 33937

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caccttggac acctgatacg actatgacta ctaccgcgcg tacactgaat tatgtccttc 120
ggattttcaa aggatctctg aggcgcatcc tacaccgagc aatgtgcaga tctatttctt 180
cctctgtacc ctacctttgg ctaaaccgat tcctagaatg acaggacttt aatcataaaa 240
gataactc 248

<210> 33938
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-C2

<400> 33938

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aaaaatacat cacctttgtc acttccaata atgagctatc agttcaaact ttatcataac 180
tcctatcgat tctcaatata tatgccccaa tccatgcgag acgctagtga ttataatttc 240
tacatcttct tactacctag acttgttaca acttacctgc ctctcttcaa agagtttttt 300
gttaacagat ttgaagtctc cctgggtctg cctgaattta cttctgtaac gctttccat 359

<210> 33939
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-C3

<400> 33939

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cgggtgcggct agctcaacca tggcgggactc caaggccacc tcggcgggtca ccctccgcac 120
tcgcaagttc atgaccaacc gcttgcctggc ccgcaaaciaa tttgtgcttg aggttatcca 180
ccccggccgc gccaacgtct ccaaggcgga gttgaaggag aggcttgcca agatgtacga 240
ggtgaaggac cccaacacca tcttcgtctt caagttccgc acccacttcg gtggaggcaa 300
gtccactggc ttccggcctca tctacgataa cctcgagtct gccagaagt tcgagcccaa 360
ataccgcctc atcaggaatg gtcttgctac taaggttgag aagtcccgca agcaaataaa 420
agagcggaag aac 433

<210> 33940
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-C5

<400> 33940

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gcgtggcgcc cgcgcggcgg catcccgaag ggtggcctcc ctcttctcgc agaagggcaa 120
gaaggggccc aaccaggacg ccgtcactat ctgacaggga ttcggcatgg atgacggcct 180

gttctgcggc gtgttcgacg gccacggctg ttgcgggcag ttcacacagca agctgggtgag 240
ggactaccta ccgttcatga tectgagcca ccggaacgcg ctctcatgg gctccgacga 300
ctacgactac gacccggtct tcagcgacgc gtcggcgctcc gcgtcgcca cggacggcag 360
cgggcattcg tagccggcgc cggtcacct gctggaggag tggcttgag gctgcgcca 420
actcgttcaa ggccatggac aagg 444

<210> 33941
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-C6

<400> 33941
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ggccgcccgc cgatcgaccc cgcttgccct cggcgcgcc aggcgcagca attcaagtgc 120
atcacccgtg ctacttccat aacgtgctaa cagtcaaatt tgtcaagcta ctgttgatgc 180
tccagatata gtagaaaacc atgggagaag ttagtgatga taattccaac atgtcctttc 240
taaaaagaat cgcttcaagt ga 262

<210> 33942
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-C7

<400> 33942
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tgccacgacc tcaagacgcg ccgcatgaag gtcttcgagg acaacttcgt acaggagcgc 180
aagaagggtga tggctcagac tgggtgagatc cgggtgcgcca tggatcacat cctcgaggcc 240
gagaggaagg gcgagatcaa ccacgacaac gtcctctaca tcgtcgagaa catcaacgtc 300
gcagcgatcg agacgacgct gtggtcgatc gagtggggca tcgccgagct ggtgaaccac 360
cgggccatcc agcacaagct ccgggaggag ctgcctcgg tgctgggcgc cggcgctgcct 420

gtgacggagc cggacctcga gcg

443

<210> 33943
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-C8

<400> 33943

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aacgcgagaa ctgctattat gcatgcagca gccgtaagca ttgctactag ggtttcatgc 120
ggggcgaaac aattgggtcta tgccgcctga acgcacggcg gaatctgtta ggcctaccgc 180
agctgcgtac gacggcagat aaggcagacg tcgtcacggc aatgccggat atgcttgctg 240
cggaccacgc ttttccagcg ccattcacgc caaccaattg ggtccacaga cagctcgtct 300
gttcaggggtg ctggaacttt ctcatgttgc cagattgtg 339

<210> 33944
<211> 453
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-015-Q1-K1-C9

<400> 33944

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gctgccggcg ccggcgcgca gcagggcggtg tggagcatca tcacccggcc catgttccag 120
agcatgctga gccaccgcgg cgacagcggg tgccagggcg ctttctacac ctacgacgcc 180
ttcatcgagg ccgccagcaa gttccccggc ttcggcacca ccggcgacga gcagacgcgc 240
aggcggggagc tcgccgcctt cttcggccag acgtcccacg aaaccaccgg tggatggggcg 300
actgctccgg atggaccgtt tgctggggga tactgccggg tgaaggaaca gaaacagacg 360
gaccaccct actatggacg aggaccata cagctaactc ataagtacaa ctacaggctc 420
ngccggcaag cgctgaacct gaacctggtg ggc 453

<210> 33945

<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-D1

<400> 33945

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gggccgagcg ggaacatgaa cccctgcggg gtcttgtaca cgtaccggcg gctcttgtac 120
tgccagaggc cgaggaccgg ctcggtgtct ccgaggacgc cggcctactc cagggccttg 180
cgccggggcgg gctactgcat ggactcgtac acctcccacc gcgccttggt gaacatcatg 240
ccgtgccccct tgtgggacgt gatctccagc acctgcagct cgccttcgca ccgtacgcgg 300
tactggatgc agcccaccac gatgcgcccg ccggtgtctt ggctgtacca ctgcagctcg 360
cgtacctgcc tcttgaccag cacggccatg atggagatac gcatgctgct tctagctgat 420
tcgttctcgt tgctatagcg g 441

<210> 33946
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-D10

<400> 33946

cccacgcgtc cggcaacagc taagcctctc ccacaagaca gcaacatggc tgaggaggag 60
gccaagaagg tggagggtga ggtcaccaag gagcccgagg cggcggcgaa ggaggacgta 120
gccgatgaca aggccgtcat ccccgcgacc gaccgctcgc cgccgccgtc gccggccgac 180
gactccaagg ccctggccat cgtcgagaaa gttgcagatg aacctgctcc cgagaagcct 240
gcccctgcga agcaaggggg ctccaatgac agggatctcg ctcttgcaag ggtggaaaca 300
gagaagagga actctttgat caaagcttga gaagagaatg agaagacaaa agctgagaac 360
aaggctgcta agaaagtatc cgctattctt tcatgggaaa acacaaagaa agcaaacata 420
gaagctgaac tgaagaagat tgaggaacaa ctggaaa 457

<210> 33947
<211> 321
<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3068-015-Q1-K1-B5
 <400> 33947
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 gcaccgacaa tttcctacgc ctgctcggcc tcggctcctc tgctgctcct ggccgcccgc 120
 ttggctggca tgagcgccaa cgccgtcacc ttcacatca ccaacaactg cgggttcacc 180
 gtgtggcccc cgccacccc gggtggcggg ggcacgcagc tgaaccggg cgggacatgg 240
 accgtcaacg tgccggccgg caccagctcc tgccgcgtgt ggggcccgcac cggctgcttc 300
 ttcaacggca acaacgggag c 321

<210> 33948
 <211> 169
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-014-Q1-K1-H1
 <400> 33948
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 tgtgacaggc ctctatggcg cgaacgcact atacatcttc ctggctggct gcaagcagac 120
 tcccgctctt ctaagctcca ttggtactct aaatcattaa ttcctcata 169

<210> 33949
 <211> 459
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3068-014-Q1-K1-H4
 <400> 33949
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 agctcgttgt gcttgctctg cttttcgtga tcgccggtgt ggcgcattggc gcgggggagt 120
 gcgggagagc ctccgccgac aggggtggcg taaggatggc gccatgcac tcggctgccg 180
 acgacccgca gtccacgccg accagcagct gctgctccgc tgtgcacacc atcgggcaga 240
 gcccagctg cctgtgcgcc gtcattgctgt ccggcaccgt cagggctgcc gggatcaagc 300

cggaggtcgc cattaccatc cccaagcgct gcaacatggc cgaccgnccc gtcgggtaca 360
 agtgccgaga ttacacgctg ccctagctga tgaagacgtc gtcaacgaga ccgtgcgagt 420
 caagtgcattg aacgaatgcc attatgccat gcaactatg 459

<210> 33950
 <211> 462
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-H7

<400> 33950

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 acgcccacac cgcagccccc gatgtcgtcg cagcgcccg gccgtcacca gcgcccgcgcg 120
 tcgcagagcg tgttcgtgct cccagagaa ctggcctccc tcgacgtcga cgcggcggcc 180
 gacgcgggcg ccaaggcccg cgggccagaa ggcgcggcg cgggcgccga gcagcaggcg 240
 aggcgcggcg cggggcgtea ccaccgcgc gccatgtccg tggccgcggc cgtggcctcc 300
 agggagcttg agctgatcaa ggaggacctc ggcagctaca actacaaggt cggcgctga 360
 gagagagaga gagagaggag ccggcacgct gcgtcatgtg tatagagctt gtgggttaac 420
 cgtaccaga gctggctttg atcgacgatt aacagtggct ta 462

<210> 33951
 <211> 247
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-H8

<400> 33951

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 cgccgacgcc gccgcgcgt gctggcccc atcgcccgag tgctgcacca tcggccggga 120
 tcctgggacc gagttgcgt atgcgatgaa actcggctgc tgtcatctcg cgaacaataa 180
 tgtagcgcg cggctatggg tcttagccgc acatgcagca gtgcgtgcgt tatacatcgc 240
 cagacgg 247

<210> 33952
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-H9

<400> 33952

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ggatgttgag taccgctgct tccacggcgg actgcactga accacagacg accactccct 120
acacaacgcc ttcagcacct acggcgaagt cctcgagttc aagatcatcc tcgatcggga 180
gacgcagaag ctccacggct actgcttcac caccttctcc acggaggacg cgatgcagaa 240
cgccatcaag ggcataaaca gcgaggaact ggacagacgc aacatcaccg tcaactaggc 300
ccagtcccga tgaagccgcg gatgcagacg cagctgcagg tactgctgta gccgatg 357

<210> 33953
<211> 391
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-015-Q1-K1-A1

<400> 33953

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ggtggaggag acgcgcgagc aggctgctcc ggcgccggtc gagccgtgcc tgtcctcgtt 120
cgtggacatg tcggagatct tccccgccag cgtcacgctc agcagcggcg gcgacgtgga 180
caatagcggc aacaagccag acgaggaaac ggccccgcga ccgcagctgt tggccacgac 240
ggcgtggtg ccggtgacgg aaaagaaggc cggctacgac gtggcccacc ccgaccgcgg 300
cacggtgatc tcgcgctaca aggagaagcg gangaacagg atgttgagcg ggcgagccgg 360
agtagtggtg gctccgatcg acaccacagt c 391

<210> 33954
<211> 456
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-A10

<400> 33954

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gagacaaatc cactattgggt tttagctcaa gcaatacgtg gagtaactcc caatatagga 120

gtaaaaacaa gacgtaataa aaaaggatcg acgcggaaag ttccgattga aataggatct 180

aaacaaggaa gagcacttgc cattcggttg ttattagaag catcccaaaa gcgtccgggt 240

cgaaatatgg ctttcaaatt aagttccgaa ttagtagatg ctgccaaagg gagtgggggt 300

gccatacgca aaaaggaagc gactcataga atggcagagg caaatagagc tcttgcacat 360

tttcgttaat ccatgaacag aatctaggta tgtagacaca tggatccata catctcgatc 420

ggaaaagaat caatagaagg agaatcggac gatatc 456

<210> 33955

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-A11

<400> 33955

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gtgacaaatc cactattgggt tttagctcaa gcaatacgtg tagtaactcc caatttatga 120

atctaataaa gacgtaataa caaacatcg actcccaaag ttccgactga cataggacct 180

aaacatggaa gagcacttgc cattcgtaaa ctattaaaat catacaaaaa ccgtccaggt 240

cgaaatatgg ctttcaaatt aact 264

<210> 33956

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-A12

<400> 33956

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gccaccaatg gccactgccg aggtccagac cccgaccgtc gtggcggccg aggaagcgcc 180

cgtggtggag accccgccgc cgcccgctcgt gcccgaggag tctgcccccg ccgaggccga 240
ggccgagggc gaggtctgtg ctctgtctga tcccgaggag cttccccgcg ccgagcagca 300
ggcagccgcc gaggcggagg ccgcggctcc tgctggtgcc gaggagcccc tcgcggccga 360
accggccgcc gaggcggagg ctgctgtctc tgctggtccc gaggagactc ctgcggtcga 420
gc 422

<210> 33957
<211> 254
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-A2

<400> 33957

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gggtggggag acgcgcgagc aggtgtctcc ggcgccggtc gagccgtgcc tgtcctcggt 120
cgtggacatg tcgtagatct ttcccgccag cgttattctc agctgcggcg gcgacttgga 180
caatagcggc aacaagccag actaggaaac ggtccccgca ccgcagctgt tggctcacga 240
ctgtgctggt gccg 254

<210> 33958
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-A7

<400> 33958

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cgctgctgtt tcccgcggtg ttttgccac gcactcagtt tagttggcag cggagtggaa 120
agcgacgacg gtgagagaga aagtggaggc ggcggatgaa ccgtcgaaga cagtatgctg 180
tcaacgacga cagtgacaag cagctgatgc gggagatcct gtccttcacc ggtgggatgc 240
cgcaatggca gatggccgca cccgaggaac acgacgtcga cggcggaagg gagcagcgag 300
gtgcgttcga aggagcaggt ccacaccatc gtccaattga cgtcgacgaa tcagatccac 360
ttgttgcttc cgtgttcctt tgcaacgacg acctatctgc aacaatggag ctgcgcacca 420

ataggaatgg atacttttcg aggatgatgg atgacaat

458

<210> 33959

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-B12

<400> 33959

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catctccaga gcatgtcata gttgctgagt ctatttgcaa gattttgagg acgttttatc 120
gtgttattga agtcatttct gcctctagtt ctccgacagc aaacatgtac ttcaatgaga 180
tatggaaagt gagaacagtc ttgcaagaag aagcatcaag tgagcatgca gaaatcactg 240
cgatggtcgc agagatgcag gaaacattca atgagtactg gcaacattca tacttatggg 300
tatgcatacc tgttatccta gaccctagat tcaagttcgg ttccattgag ttccgtctga 360
aacgagcttt tggattaaaa tcagcaagct acttatctgg catacgtgaa aactccagg 420
aactcttcaa tgaatactgc agtccagtgg atc 453

<210> 33960

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-B2

<400> 33960

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agatcaactg atagtttcaa taacagcagc ttcggcaacc aggccggtgg tggttcaagc 180
tttcaactga gcttccataa cagctccagt ggcaatcagt tcggtggtac taccagcttt 240
catggcagct atggtaacag cagccagaac aatcagacag gtgacaatcc gagctttcca 300
cccagcttca gtaacattca gtccggggat ggtctcaggt ttcaatgaaa gttctattga 360
tcacgccgaa aggaccagag ccgatcaaac cat 393

<210> 33961

<211> 443
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-015-Q1-K1-B3

<400> 33961

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gagcaccaac aatggccgcc gcctcctcgt cctcggctct cctgctgctc ctggccgccg 120
ccttggtctg catgagcgcc aacgccgcc ccttcacat caccaacaac tgccgggttca 180
ccgtgtggcc cgcggccacc ccggtgggcg ggggcacgca gctgaaccgc ggccggacgt 240
ggaccgtcaa cgtgccggcc ggcaccagct ccggccgcgt gtggggccgc accggctgct 300
ccttcaacgg caacagcggg agctgccaga cgggcgactg cggcggcgcg ctggcctgca 360
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tctacgacat ctcggtcatc gat 443

<210> 33962
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-B4

<400> 33962

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ggcgcggcag cctgcttctt caccggcgcg gcggcctgct tcttcgacga cgcggaggcc 120
tgccggcgac gcgacgcggc agcctaccgg gcgaacggat ccgcggacga acggatctcc 180
ggcgctgat agatcttcgg cgcgcggcct accgggtgga cggatctccg gtgcctggta 240
tatcctcggc gtcgcggctt gcttcttcac cggcgccgcg gcctgattct ttgacggcac 300
ggcggcctgc cggctctctc caggcgggca gatg 334

<210> 33963
<211> 456
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-G8

<400> 33963

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caagttgaac acgcgatccc attcccattc tcttgctcaa tacaacctcc ggctccagca 120

agccgcagcg ccaagcctag aagcggagcg cggaacacac gaggccagga agaggaggtg 180

ctgccgtccc cgcgcgcgcg ctgtgggagt gcggggaatg gggcggcacg gcgtggacca 240

gatcggcgct gtggcagcgt tegtctgggt caccctcctt cccttgctgc ttgtgtgcgt 300

cgtgtggccg ggcgcccagg ccggccatac aagcgagtac cggcgccaac tcggctccgc 360

catcgacatg ccactcgacg ccgatgtctt ccgccctccc ccgggctaca atgcgcccga 420

gcaggttcac atcacacaag gcaatcatga tggcac 456

<210> 33964

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-E3

<400> 33964

gtaatcggag ttgttccata tggttggtctc aacttcgctg tatatgagtc cctcaaagac 60

tggctgctcc agacaaattc atttggcctt gcaaatgaca acgagctgca cgtagttaca 120

aggcttgggt gtggagctgt ggcgggaacc attggccaga ctgttgcata cccgcttgat 180

gtcatcagga gaagaatgca gatggttggc tggagccatg ctgactctat tgttactggg 240

caaagcaaag aagcactcca gtacaatggc atgatcgatg cattcaggaa gactgttcgt 300

catgaaggag ttggtgctct gtacaagggt cttgtgccga actcagtcaa ggtggtgccc 360

tcaattgccca ttgcatttgt gactta 386

<210> 33965

<211> 515

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-014-Q1-K1-E4

<400> 33965

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accttggaga ctctgatgtc ggtagtgag taccgtaccg ggtcgttgga ccgggtattn 120
ncggtccttc cgnngathtt caagggggcc tgccgtgggg ccgcatccgt gatcactcgt 180
cgcgaaaatg ttgcgggtgt ttcttctctg gccgtctgga acccttacct tccggcttga 240
actntngatt ccagggttg gcgtggcccg ttatagccat gaaaagataa tctcttttcc 300
cgagggcccc tcgcccgggc gtctttcccg acttttecta acngnntcgc cgtcttgggc 360
tgccacagtc ccggcttcnn gggaaatctt aacnncnca ttcccttttc ggggtaacgn 420
nngcgtgatc gcgtatctt gccgggtttt ccccgggtcc cttagggaat cggctttacc 480
catgttgcaa gttgccgttc acatgggaac ctttc 515

<210> 33966
<211> 428
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-014-Q1-K1-E5
<400> 33966

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cccgaaaccg atcgcaccga cgaggtggat ccaggggaa ggctctctt taccgccgcc 180
gatggacgtg ggctcggcg gcgcgggtag ttccggcaga ggagggggag ggggccggag 240
cgggagcggg ggcggtcggg acagcccgtt cgctctcggc gggggcggcg cgtcggcggc 300
tgctggacc cggctcgtca gctccggcgt ggaggacgag ctggtggctg cgtcgggagg 360
aagaggagga ggtggaagac gcgcgggggc gagagcggga ggctgccgc agggccactt 420
tttgacg 428

<210> 33967
<211> 162
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-014-Q1-K1-E7
<400> 33967

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gctgtacacg catctacgct tacgaagcgc tgattgcgaa ggcttacgtc taggatatgc 120
gcacggagct cgaattctct gcccaggacc ttacagcgac gt 162

<210> 33968
<211> 291
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-E8

<400> 33968

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gcaccctcgc gaaaccaaga gtttactgac tagtacgagc tagctagcat gcagtaataa 120
taatcatcgt aataataata ataaaacgac ggggctgagc cactttgttc gacctgtatg 180
aataatgaaa caactgtatg ttccctcggc acgtaattgt gtatgcttgt gcttgtactt 240
tccgtttgca gcatgggttt aacatcgcag aaatcaagaa atttcgagaa c 291

<210> 33969
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-F11

<400> 33969

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agaggatgag agaaaggctg cattggctgc ccagtttgca gcagaagcaa ctttgccggag 120
agtacatgca gccagaaaag atgatgacat gccaccaatt gaagccattc ttgcaccact 180
tgaagctgag ctaaagcttt ctcgccagga gattgcaaat ctccaggatg acaacagagc 240
tttgatcgt ctaacaaaac aaaaggaggc agctctgcta gaagcagaga ggactgtgca 300
aattgctatg gcaaaagctg ctatggttga cgatttgcaa aacatgaacc aagagttgat 360
caagcaaatt gagatctgcc atgaagaaaa taaaatctta gataagctgc atcgccaaaa 420
gattgcagaa gttgaaaagc ttaccaaac tgtg 454

<210> 33970

<211> 341
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-014-Q1-K1-F12

 <400> 33970

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 agtcaccggc ctaacggcac tcgatccgtc acatcatctt accaccggat ccaccagga 120
 acgcatacac ttgtaccac actaagggtc cagagcctct cttactacac gagaaataac 180
 caaaatttcc ttaaaagtaa cgatttttaa ctctcaccat tgaactacca ctcattctac 240
 acatgtaaag tcatttcaga gattcgatct atagtcaatc taaacatgct cttgtttctc 300
 ctcttagatc tgcaagctct ttcctttgtc tctggcttcg c 341

<210> 33971
 <211> 321
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-014-Q1-K1-F2

 <400> 33971

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 ccagacatgg acaaattata aagaagaaac cacacagatg aacaccctat ctcgttcaca 120
 caccttacct acatgaaacc accatcacia atcagagatt gctgctacgc tttcttttcg 180
 cctacaatct gccaaagcaa acgtatgatt ccctgtaaac cgacatccct attagctcac 240
 ccacatcact caatcaagaa ctgacttggt taccggcaac atgcaaatca taagccgaac 300
 actcctaact gcgtcttgcc c 321

<210> 33972
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-014-Q1-K1-F6

 <400> 33972

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gattttgtgt ttgggaaagt ccgaagaaaa aaggatttgg aatctacctt ttcttttgct 120
 ttttccctta taaaaataac tcaatcaaaa tccaattatc tactctacaa gaatgaaatg 180
 cttgttatgc ctaatatact tagtttaacc tgtatctggt ttaattctgt tctttgtccg 240
 actagctttt tcttcgcaa attacccgaa gcttatgcca ttttcaaccc aatcgtggat 300
 gttatgcctg tcatacctgt actctttttt ctattagcgt ttgtttggca agctgctgta 360
 agttttcgat gaaatcttta ctattctgcc tgccaaattg aatgatgtat tcattccaaa 420
 aa 422

<210> 33973
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-F7

<400> 33973

cccacgcgtc cgcccacgcg tccgattcca ttctcatttg agaatgcaa tacaaggaag 60
 ggtttcgtgt ttgggaaagt ccgaagaaaa aaggatttgg aatctacctt ttcttttgct 120
 ttttccctta taaaaataac tcaatcaaaa tccaattatc tactctacaa gaatgaaatg 180
 cttgttatgc ctaatatact tagtttaacc tgtatctggt ttaattctga tctttgtccg 240
 actagctttt tcttcgcaa attacccgaa gcttatgcca ttttcaaccc aatcgtggat 300
 gttatgcctg tcatacctgt actctttttt ctattaacgt ttggttggca agctgctgta 360
 agttttctat gaaatctcta ctattctgcc tgccaaactt gaatgatgca ttcattccca 420
 aa 422

<210> 33974
 <211> 311
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-F8

<400> 33974

aaaaaacata aaaaaaaca aaaaaaaaaa atactaaaaa tacaatacat aaaaaaaagc 60
 aaggacaaaa aaaaaagaaa gaaaacaaaa aaaaacacca ccataaaaaat caaacacatt 120

acccaaaaaa aaaccaccaa cacaaacagg ggattccttc taccctcttc catttacttc 180
 aatcttccat gcaacgcata tgctccgttt cagccctacc tacctaaaaa cctaccccc 240
 cactcaaaa cagaacctac tccaaaaccc gcggcattcc aaacataatc ccctctcccc 300
 caaatgcctt t 311

<210> 33975
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-F9

<400> 33975

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 aggggtgatga gagaaaaggct gcattggctg cccagtttgc agcagaagca actttgcgga 120
 gagtacatgc agcccagaaa gatgatgaca tgccaccaat tgaagccatt cttgcaccac 180
 ttgaagctga gctaaaagctt tctcgccagg agattgcaaa tctccaggat gacaacagag 240
 ctttgatcg tctaacaaaa caaaaggagg cagctctgct agaagcagag aggactgtgc 300
 aaattgctat ggcaaaaagct gctatggttg acgatttgca taacaagaac caagagttga 360
 tcaagcaaat tgagatctgc catgaagaaa ataaaatctt agataagctg catcgccaaa 420
 agattgcaga agtgaaaagc tt 442

<210> 33976
 <211> 362
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-G11

<400> 33976

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 ctctagctca aatgaccagc acttgtctag acttgagacc atcatgaaat gcaaggtatc 120
 tgaagcgaaa ctgttactaa actggccgat gatgccagct atgaggtaca cagctaccat 180
 caaatcttac ttaccaagac ccacaaacta tatgacgagt acgccacgaa tgtggcaaat 240
 ctgctctttc atgaaactga tgagaaaagg acgtacaaag ttgaagagct gtagacgctc 300

gataactcgc actacgacta ccacaagatt aagctgcgga tgcaaaccga aatgcagggc 360
 tt 362

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 <210> 33977
 <211> 274
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-G12

<400> 33977

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 ggtcaacgag ggtccattct cccttggtca gttcagtcgt gtggacattg cgtatgtacc 120
 attcatcgag aggtttcaga tattctatct caaccttaag aacttttata tttccaaagg 180
 cctaaccac ccttaaaaat tcaatggagg aattgaccat aatggatcct tccccccaga 240
 ctaaccagga cccacagttt ttactggacc aacc 274

<210> 33978
 <211> 206
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-G2

<400> 33978

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 gccctgcatt ataagcctgt actgagtgcc ctgtttgttt aagggttcagg gtttaggaat 120
 ttgtgttcac tcttactcac tttggatttg cggtggtatt tgtttgcttg agttatattg 180
 aggtaaattt aaacgttcat gatttc 206

<210> 33979
 <211> 84
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-G6

<400> 33979

cggacgcaaa aaaaaacaca ataataacaa aacaatactt tgaatttaaa aaaaaacaca 60

acaaaaaaaa caaaaagaaa atct

84

<210> 33980
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-G7

<400> 33980

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gctggccctg gtggtggtgg ccgtgagcct ggccgtggag atccaggccg acgcccggta 120
cggttacggc ggcgggtaca ccccgacgcc gacgccggcc accccgaccc cgaagcccga 180
gaagcccccc accaaggggc cgaagccgga caagccgcc aaggagcaca agccgcccga 240
ggagcacggg cccaagccgg agaagccgcc caaggagcac aagtccgacg ccgccacgta 300
caccgagc cccaaacca cgccgtcgac gtacactccc accccgacgc cccccaagcc 360
gacgccccc acatacactt cccgccctac gcccacaaa cccacaccaa aaccactcc 420
cactccttcg acgtacacct cgacccccaa gccttcgac 459

<210> 33981
<211> 180
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-E12

<400> 33981

gggcgccccg cgtgttgtgc gtacgtatctt acgtatacat gtatgtatgt atatgcgcgc 60
gtgtgatgca cgaataagcg tggctacgta atctatcgta tgtatacgtg tgtgtatgca 120
tgtgcttggt tatgatcgtg gtacgaggac cgaaaaaatg tatgcaactc tgatttactt 180

<210> 33982
<211> 232
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-C4

<400> 33982

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 gttgcctega ctaatgggtc ctgttccatt ttgtaatcac ctatgcatgt ttactgtatc 120
 aatttggtag attactattg ttccatgttg tcttccacaa cataactggac tggttcagcg 180
 gctagtttcc tattcaacca tttcgtaatg aacgaggtat tggatatttag gt 232

<210> 33983
 <211> 387
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-014-Q1-K1-C5
 <400> 33983

cggaacgcgtg ggcggacgcg tgggcgcgag caaaaggcgg caggaatggc agccaaaaca 60
 ggcggcggag gaggaggagg agacgtccgg tgccgtccca acggaggagg aggagtcgta 120
 tccgaaaaga gatgaggccg acggcaaacc gtctgcagag gcagagacga cgacgagcaa 180
 ggccgtgtgc aacacggacg gccccgtgtc cgagacgtgc gacctggacg gcgacgtccg 240
 cacgaacggc agcgccctat cgggtgacgtt cgtcccggcg agcccgtcgg agcggcggga 300
 gtggaaggtc cggccgtact cgcgccggac catggtgggc gtcgacaggg tcaccgtgac 360
 gcggctgggg tccccgatg acccggc 387

<210> 33984
 <211> 437
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3068-014-Q1-K1-C6
 <400> 33984

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 atcaacaccg acctcaacga cggcagctac gacggctacg ccggcgacat ctggagcttc 120
 ggcctcagca tctcagagtt ctacttgggc aggttcccct tcggggagaa cctcggcagg 180
 cagggcgact gggccgcgct catgtgcgcc atctgtaca acgaccgcc cgagccaccg 240
 accaccggct cgcgcgagtt caggggggttc atcgctgtct gcctgcagaa gaaccgggcc 300
 aagcgcctca cggccgcgca gctgctgcag cacccttcg tcgccggccc gcaccgcag 360

cccctcgctg ctccctncccc gtcataacca caccaccatt tcggcggggtt gggagttggg 420
accaaagtac ggatctc 437

<210> 33985
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-C7

<400> 33985

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gctcgccccct gcagcagcag cagcagcgcc gctgccccgc tctctctct gctcgccgcc 120
gtcgcagcgg cgctccaggc cgcgggcgcc gcgcccggg tggccagcgg cttcatccgc 180
aaatcctgcc gcgcgacgca gtaccgctcg gtgtgcgagc agagcctcgc ggcgtacgga 240
ggctccccgc cgccgcggag cccgcgggag ctggcgcacg ccgcgctggc ggtgagcgcg 300
gaccgcgctc gggcagcgtc cgcgtagctc ggccgcctgt gcggctcccg gtccggatcc 360
ggcgacggca gccccgccc cggcgcgggc gcgaagaagg ggtc 404

<210> 33986
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-C8

<400> 33986

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ggtcgccccct gcagcagcag cagcagcgcc gatgccccgc tctactact gctcgccgcc 120
gtcgcaacga cgctacaggc cgcgggcgcc gcgcccagcg tggccaacgg ctacatccgc 180
aaatcctgcc gcgcgacgca gtaccgctcg gtagtagcgc agagcctcgc ggcatacggga 240
ggctaccgcg cgccgcgata gcccgcacga gctggcgcac gccgcgctgg cagcgagcgc 300
agaccgagct cgggcagcgt ccgcgtacga cggacgcctg tgcggattcc ggtccggatc 360
cggcgacggg agccccgccc gaggcgcc 388

<210> 33987
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-D1

<400> 33987

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gctacgcgtg ctcccaggtg agctgcggcg tgatccagaa gggcgggccg tgctactacc 120
cggacaacct ggtgtcgcgc gccgcgctcg ccatgaacct ctactatgcc gccaatggca 180
ggcacccttg gaactgctac ttcaacaact cggcgctcgt ggtgcagtc gatcccagct 240
atggatcctg cacctactac tgatgtctgt ctgatgtctt gctgtgctgt gttgtgtcta 300
gagatgacaa tggggatata cctagttgcg tctagtaga agtgtctctt gtccatcca 360
gttgatatgc atgataacat ttggagatgc gtgcatgtga ttttt 405

<210> 33988
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-D2

<400> 33988

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ccggacaacc tgggtgcgcg cgcgctcgt gccatgaacc tctactatgc cgccaatggc 180
aggcaccctt ggaactgcta cttcaacaac tcggcgctcg tgggtgcagtc cgatcccagc 240
tatggatcct gcacctacta ctgatgtctg tctgatgtc tgctgtgctg tgttgtgtct 300
agagatgaca atggggatat cctagctgc gttctatta 339

<210> 33989
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-D3

<400> 33989

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 ctgcttttga gaacctacta aacgtaacat aagatgttgg ctcccggctg ttcttgata 180
 tttctgagca tctggagttg tctagcctgc caagctctaa tgggtgtattg aaatatcttg 240
 ctggaaagac attaccgtca catgcagcta tactgtgtgg tttagtaaag aatcagggtg 300
 actctgatct ggacgttgct tttgccattt ccgaagatgc agctgtatat aaagcattat 360
 cacaaactat tgagctattg gaaggccaca cttctctgat c 401

<210> 33990
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-014-Q1-K1-D4
 <400> 33990

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 ctgcttttga gaacctacta aacgtaacat aagatgttgg ctcccagctg ttcttgata 180
 tttctgagca tctcgagttg tctatcctgc caagctctaa tgggtgtatcg aaatatcttg 240
 ctggaaagac attaccgtca catgcagcta tactgtgtgg tttagtaaag aatcatgtgt 300
 actctgatct ggacgttgct ttagccattt ccgaatatgc agctttatat caagcattat 360
 cacaaactat tgagctatcg taaggccaca acttcttgat catccagcac tattatcggt 420
 gcctttt 427

<210> 33991
 <211> 388
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-014-Q1-K1-D5
 <400> 33991

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aaaaaaaaaa aaaaaaaatg ggcgtccttt ttaaagggtc catttttact tccccttgat 180
 ttcaatttaa attttttttt tttgtgtccc ttaaataaat taccttgtcc ccctttttca 240
 aactttttaa ttggaaaacc cctttttttc cctacttaaa tcccttttaa aaaattcccc 300
 tttttcccat tttgattatt accaaaaagt cccccaccat tcgcctttcc aaaaatttgc 360
 cccacctaat ttttaaattg tacccccc 388

<210> 33992
 <211> 453
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-D6

<400> 33992

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 ggtcgacatg gctcgcacgc aatctgccgt agcggtcgcc gtggtggccg cgggtgctgct 120
 gctggcagcg gcggcgacga cctcggaggc cgccatcacc tgcgggcagg tgagctccgc 180
 catcgcgccc tgctctctct acgcccgcgg caggggtcc ggcccctccg cgtcctgctg 240
 tagcggcgtc aggaacctca agagcgccgc cagcaccgcc gccgacaggc gcgccgtctg 300
 caactgcctc aagaacgccg ccaggggcgt cagcggcctc aacgccggca acgccgtcag 360
 catccccttc aagtgcggcg tcagcatccc ctacaccatc agcaccttca ccgactgctc 420
 caggggtgaac taaaacctag accacgcgcg acg 453

<210> 33993
 <211> 360
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-D7

<400> 33993

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 tctagcacat ccacgagaaa taataagtga agtgcttaaa gcactgcaag aactgaatgt 180
 ttactggaaa aagattggac actacaacat gaaatgcaga tggagtcctg gctgccttga 240

gagtatgatg cataactgtg atggctatag tgcagagtct gctataattg aaactgatga 300
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<210> 33994
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-D8

<400> 33994

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gcgggttgccg cggcgcacgt ggcagacgta gaggtggagg aagagggcga ggccgagcac 180
ggacacgaac gcggcgacct aggtggtgac gagccgcgcg ttgtggctta tccccgctgc 240
cgaccgggtg cgtgcgccgc tgccgaacca cgcggacccc gggtcgctcg ctttcacgt 300
cgctcgctgac atgggtctctg tcgtctcgtg tctgactgtc ctagctccga caggctctagc 360
tgctcggcgt gtcgcagcag gtactacgta cggtacgagc caagttgctc ggggtgggttt 420
ggtggtgaat gagaagtgag aagcgacaac 450

<210> 33995
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-D9

<400> 33995

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gccgctgccg tgtaaacaat agatgctcct aaacaagcct tgacccaaat cgaggattgc 120
gcgaaggatg agcgaagaga catcaagagc cagctcgcag actaccctac tactgataac 180
gctcctgctg ttgatgagct gaccacacct atcatggtgc aatacagaca ctcgtatatt 240
catccagccc caagctacaa gaaacgctac gaaaaacat gatctttata tcaactcact 300
gctcatgctt atcgggagtg caacttaca gctgattcga agaccg 346

<210> 33996
 <211> 413
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-014-Q1-K1-C2

 <400> 33996

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 ggagtggtag cctgcagata agcttgctgc agcagatgtt gatcgatcaa tgcaattaag 120
 catcacggat ttggaaacat tctgccttat caataatgtc cagtggccgt tatctcttgt 180
 aatttcaagg aaggctttga caaaatacca atttgatctt tctcctattg ttccactgca 240
 agcatgttaa tcgtcatctt tattcaacat ggccaataca acatgcattc cggctctgaca 300
 tgattcttag tacaccaatt ctgtcgacat tcaattctat agtctataca tgctccagtt 360
 ttgtaaattt tctttctcta ttaactaaca ttttgaggtt cttgaaccaa att 413

<210> 33997
 <211> 85
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-013-Q1-K1-H3

 <400> 33997

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 ataataaatt ggtgtcatga agtgg 85

<210> 33998
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-013-Q1-K1-H6

 <400> 33998

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 tcggaaggga tactggcagt tcaacatggg tgatgtcctg gttgatggaa agtccactgg 120
 gttttgtgcc ggtggctgtg cagccatcgc agattctgga acttccttgc ttgctggccc 180
 cacagccata attactgaaa tcaatgaaaa gattggtgct gctggtgtag tcagccaaga 240

gtgcaagact gttgtttctc aatatggaca gcagatccta gatcttttgc tagctgagac 300
acaaccagcg aagatctggt ctcagggttg tctgtgcact tttgatggca cccatggtgt 360
cagcgctgga attcggagcg tagtggatga tgaagctggg aaatcaaagtg gtggtctc 418

<210> 33999
<211> 100
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-H7

<400> 33999

cttacacatc gcaagcaaac gaacaaatat aataaataat aaaaacatat aaaaagaaga 60
aaacacaaag catgatggaa taacggcatg aacactataa 100

<210> 34000
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-H9

<400> 34000

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aggctatccc atatcaggac agacaagaag accgctacaa taagagtcct caacttcttg 120
aatacaaccc agtatacaag aaaactccac tgcttgtcca taatggaaaa cccttatgtc 180
agtccatgct tattgttgaa tacattgatg acatttggtc acataattca ttacttcctg 240
ctgatcccta ctagagaact ctggcaaagt ttaggttaa atatgctgat gatgacatgt 300
tttctgcaag tattgcattc ttccttaaca ataatgaata agagcgagaa aagagcatac 360
agaagatatg gcagcatctc aaggttgttg agaatcaacg atttggtgat 410

<210> 34001
<211> 230
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-A1

<400> 34001

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 aaagaaaaat atataaat ac aaataactaa aacatactaa aaaataaata aaaaattata 120
 cctttttatta atctaaacct taatttaaatt aaaataaacc ataaaattac actaaaaaat 180
 actcctctaa ctttttttact tccacaattt ttttttcttc cttctaattt 230

<210> 34002
 <211> 461
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-A10

<400> 34002

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 tggcaattat gatcctggca atggaattgc agaagataga tctgagggtca atggatctac 180
 tcaaataaag cctccaaaat ttcaaaaggg tgtattacgt acaaactgta tagattgttt 240
 ggatcgacaa aatgttgctc aatatgccta tggcctagct gctctaggat accagttaca 300
 tgcacttggc tctgtagaat ctccagaagt tcatttagac tcccctttgt ctgcacattt 360
 gatgcatttt tatgaacgga tgggtgacac acttgcttta cagtatgggtg gttctgctgc 420
 tcacaataag atattctctt gcaaaagagg gcacttgaag t 461

<210> 34003
 <211> 448
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-A12

<400> 34003

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 cgtccgagac catgaagagc agcccacacc tgggtgctgat cctgtgcctc caggccgctc 120
 tggatcatggg cgtcttcgcc gctttggcta aagaaaatgc cctgggttgag agcaaggcca 180
 tcgacatcaa cccggggcag ctcaagtgct gcaccaactg caacttctcc ttctcggggc 240
 tctacacctg cgacgacgtc aaaaaggact gcgaccccgct ctgcaagaag tgcgtcgtcg 300

cctgtcacgc ctcctactcg ggcaacaaca agttcatgtg caccgacacc ttcctcggca 360
 tgtgcggccc caagtgctag atcagagagg aagaacgcgc gcttgtgcta gctgctatag 420
 cttcgatctt ccggcgtcgg ccggtgca 448

<210> 34004
 <211> 268
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-A4

<400> 34004

cctgtacgtc acgagctggg ggaacctcgg cttggaccac gttgacttcg gcagcggcgg 60
 cgctgagcgc gtcacggggg gcatggagcg caaggtgggt ccgggctgct tcctgtgcgg 120
 gaaaaaggac aaggccgagg gcgtcgccgc catggcgctc tgcgtcaagc aggagcacgc 180
 tgaggctttc catgcggagc tacgaagcct caagtgcgc ggagacctta catgtttgtc 240
 cgtgtttcaa ttttaataag agcacttt 268

<210> 34005
 <211> 250
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-A8

<400> 34005

aacaaacata acaaaaataa taaaatttaa atattcaaac aaaataaaaa aaatcaaggg 60
 gcggatataa tgacacactt agttatgctt atataaatac acctacccta tctatcttca 120
 catctgacat tattttacat gccccatatg ttacattaga ttgtcactta aaagccttta 180
 gacatcctac tcaatcaata taaattcacg ccattagcta ttcaacccaaa cacctagatc 240
 aatttcatta 250

<210> 34006
 <211> 187
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-A9

<400> 34006

gcgtccacgc gtccgaaggg acagtcggca aagcggatcc gtaacttatg gaaaaggatc 60

ggctctgacg gttgggctcg ggggtcccgg acccgaaccc gtcagctgct ggcggaatgc 120

tcgagctgct cgcgcggcga gagcggggccg tcgagtgccg gccggggggac ggaccgggaa 180

cgggccc 187

<210> 34007

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-B10

<400> 34007

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tgcgcccgtg aaccctcagc cttctccgtc ccgcctcggc actcgacggc cgccggcaca 120

caccgcgcag tctcgagaca ggaaccggag gaacgaggat ggaggatgac tcgccgctga 180

cgaagacgat gaaggggtgcg gtgacaggac tcgccgcggg gaccatctgg ggcaccgtcg 240

tcgccacctg gtacgacgtg ccccggtgtg agcgccacgt cgcgctccct ggccttatcc 300

ggacgtcaa gatgtgcggc acctacgggg ccaccttcgc caccatcggg ggcctctaca 360

tcggcgctcga gcagctcgtg cagagccagc gcaagaagcg cgacttcgtc aacg 414

<210> 34008

<211> 462

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-014-Q1-K1-B5

<400> 34008

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acacctgggtg ctgatcctgt gcctccaggc cgctctggtc atgggcgtct tcgccgcttt 120

ggctaaagaa aatgccttgg ttgagagcaa ggccatcgac atcaaccggg ggcagctcaa 180

gtgctgcacc aactgcaact tctccttctc ggggctctac acctgcgacg acgtcaaaaa 240

ggactgcgac cccgtctgca agaagtgcgt cgtcgccgtg cacgcctcct actcgggcaa 300
 caacaagttc aggtgcaccg acaccttctt cggcatgtgc ggccccaagt gctagatcag 360
 agaggaagaa cgcgcgtgct tgctagctgc tatagcttcg ttcttccgnc gncggccggt 420
 gcatggttca cgtactgtgt gttgtgctac tacgatacgt ac 462

<210> 34009
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-B6

<400> 34009

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 gcacctggtg ctgatectgt gcctccaggc cgctctggtc atgggcgtct tcgccgcttt 120
 ggctaaagaa aatgccttgg ttgagagcaa ggccatcgac atcaaccggg ggcagctcaa 180
 gtgctgcacc aactgcaact tctccttctc ggggctctac acctgcgacg acgtcaaaaa 240
 ggactgcgac cccgtctgca agaagtgcgt cgtcgccgtg cacgcctcct actcgggcaa 300
 caacaagttc aggtgcaccg acaccttctt cggcatgtgc ggtcccaagt gctagatcag 360
 agaggaag 368

<210> 34010
 <211> 362
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-G7

<400> 34010

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 gactcatatc aaaagcagac agacattcat gagattcaat gtcacaaatga tcaacttcac 120
 atacatgaac agaaacatga acacaagatg gatcatttag ccaaataacc actactacac 180
 taccataatt tctaaaacag agcttcaaac aacacagaac acaatgatgc atccaaagct 240
 caacacacaa actcaaccaa tatttagatt ctcaataata aagccctaca tatatccaag 300
 gaattcacc ccaatcattat ggctatcaac gatgcaaaca ttatggaaac acagtaacga 360

<210> 34011
 <211> 256
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-B8

<400> 34011

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 aagaaaaaaa aactaatact gtaaataaaa aaccaatcta aacatgggcg tattaacaa 120
 tttaactaaa gaaaatgccc atgaatgaaa acaaagacat caacatcaga cccgtcgcac 180
 ctcaagtgcg gcaccaactg caacttctcc atctcgtagc tctacacctg cgacgacgtc 240
 aaaaaggact gccacc 256

<210> 34012
 <211> 386
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-C1

<400> 34012

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 gttggatcct gcagataagc ttgctgcagc agatgttgat cgatcaatgc aattaagcat 120
 cacgggtttg gaaacattct gccttagcaa taagggtccag tggccgttat ctcttgtaat 180
 ttcaaggaag gctttgacaa aataccaatt gatctttcgc ctattgttcc actgcaagca 240
 tgttagtcgc cagctgtgtg cagcatggca aatacaacaa gcattccggt ctgtcaagat 300
 tctagggaca ccaattctgc ggtcatcaat tctttgtcgt agcatgctca agtttgtaaa 360
 tagccttttg cattatctaa catttg 386

<210> 34013
 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-C10

<400> 34013

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tggaaggggtt gagtcctagc cagccggcaa aagatgagct gctgatggta atgatgatga 120

taagaggcca ctgctaccct actacgtacc ctctcttttg tgtgctgcca tccgtccccg 180

ttagacgatc gaggagagaa taacgcagag ctctctgctc ccggcctgtc ttctgccgtc 240

ccggccggtt aatttactag tgtgttcgtc ctatatgttt agcagcagca ggtgtattgt 300

gcgggtatgt aatggtattg caactatatt ggggtgtaaaa ccataataaa tgtgggcaaa 360

tatgcaagg 369

<210> 34014

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-F12

<400> 34014

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tcacctatat atggaagtgc taatggtaat gggtgagaaa tggagaagta tggagttgga 120

aacttggtgg cgaatgaaat ctgtagtgaa agaagtgttt gtgctctagt catttccaac 180

gcaccatttt ttaccaattc gtgggcttaa taaagagtgg gaaaaatggc tgattagcat 240

caatttattc tatactgtaa ttatgataat attacttcat cacaatactg tagatttttt 300

tttatcgaac gcagaagagt tgcgtatcat tatactaaaa agaaaaaagg tctaaaacag 360

accgatacaa accgccgaag cggtaaaaga acgaaaataa aagagggtta caagacatca 420

gagagaaccc g 431

<210> 34015

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-F3

<400> 34015

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ctgtgaatac gctgacgcta cgagaagtca tcacggaagg ggtctcgaag caaggtgcaa 120
agactcacct gccgtctctg atgggctttg ctggctgggt atccatgctg ctcttctctc 180
tggtcgccgg tgctgtagca aatgaccaga tcttcaccac ttcaggtgtg ccatttgggc 240
ggagttcgcg tgagccaagt taccgcgtcg aattccatcc tgttgattca ccattccatc 300
cagagaatgg tcaagaatcg gtaccaatgg ctagtcatga tgggaaacgt tataaatgct 360
ttctaccagt tgaagaaact aaaaccatga agtcaatgct tccgcaaat gcaactaatg 420
gtataat 427

<210> 34016
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-F4

<400> 34016

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atcaactggg actgttatat aactcactc tgccagaaat catcaccgaa cttctctcca 120
atcaacgtcc aaatactcac cttccttctc taatccacta tgctgactct atattcattc 180
ttcatcttcc tcttgatcac caacgtgtga tcacatgacc agatctctac cacttcaact 240
actccatctt aacgcattcc tttaaaacca acctatcatt tcaaattcca tac 293

<210> 34017
<211> 424
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-013-Q1-K1-F5

<400> 34017

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ccccactccg atcgaatcga tggccgccga gggcgagaag aagatgataa ccctcaaaag 120
ctccgatggc gaggagtctg aggtggaaga ggcggtggcg atggagtgcg agaccatccg 180
ccacatgatc gaggatgact ggcgccgaaa cggcatccct cttcctaacg ttaactccaa 240
gatcctatcc aaggtaatcg agtactgcaa caagcacgta catgccgccg ccgccgccga 300

cgccgcctcg aaggccggtt ccgacgacgt ggggtgccgnc tacgccaaca gcaccgtcgc 360
 ctccggtgag gacctcaaga actgtgatgc ggacttcgtc aaggtcgacc aggccacgct 420
 tttc 424

<210> 34018
 <211> 398
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-F6

<400> 34018

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 gttccccact ccgatcgggt cgatggccgc cgacggcgag aagaacatga taaccctcaa 120
 aagctccgat ggcgaggagt tccaggtgga agaggccgtg gccgatggagt cgcagaccat 180
 ccgccacatg atcgaggatg actgcgccga caacggcatc cctcttecta acgttaactc 240
 caagatccta tccaaggtaa tccagtactg caacaagcac gtacatgccg acgacgccga 300
 cgacgccgcc tctaacgccg gttccgacga catgggtgcc gcctccgtca acagcacctg 360
 cgtcttcggt gaggacctca agaactgtga tgcggact 398

<210> 34019
 <211> 287
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-F7

<400> 34019

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 gccagtagaa aaaaagcgct agctctgcac tagtccagga aaaataaggt tgtttacatg 120
 caatctttca gtgtgtgatc cctgaaacaa tctttgaagt ttctgaccgg cagaataatt 180
 ttatttaagt atttttagttg aatcagtgtg cttttttttg gatattctgc actcatgaag 240
 ttaaaggatc aaaacttggt tctgaatgca gaaatgtttt ctctggt 287

<210> 34020
 <211> 244

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-F8

<400> 34020

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 tcaccctatc actcaactat atcaaactctt ccaagatctt actgtcctaa tccatgatca 180
 agcagcactt atagatcaca ttcatcccca tatatacaat cctcttctag cgacttccta 240
 acct 244

<210> 34021
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-F9

<400> 34021

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 ttgattcgag tgctgttcaa gctcttaaag acttgcacca agaatacaaaa gcacgccata 180
 ttcagattgc catagctaac ccgaaccggc aagtgtacct tctgttgtca agatcgggca 240
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 gcctacagca cgtgcagaat tcactttcaa atgcgttgaa gctacccgtg caggcatcag 360
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<210> 34022
 <211> 432
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-013-Q1-K1-G1

<400> 34022

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gagcaccaac aatggccgcc gctctctcgt cctcggtcct cctgctgctc ctggccgccg 120
 ccttggtggtg catgagcgcc aacgcccga ccttcacat caccaacaac tgcgggttca 180
 ccgtgtggcc cgcggccacc ccggtgggcg ggggcacga gctgaaccg ggcgggacgt 240
 ggaccgtcaa cgtgccggcc ggcaccagct ccggccgct gtggggccgc accggtgct 300
 ccttcaacgg caacagcggg agctgccaga cgggcgactg cggcggcgcg ctggcctgca 360
 cgctgtctgg gcagccgncg ctgacgtggt ccgagttcac catcggcggc agccaggact 420
 tctacgacat ct 432

<210> 34023
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-G10

<400> 34023

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 atatgtgaac aagaagttca gcaaccagta caaggctacg attggggcgg atttcctcac 180
 caaggaggtg cagttcgagg acaggctctt cactctgcaa atatgggaca ctgctggtca 240
 ggaaagggtt cagagtcttg gcgttgcat ctaccgggga gcagattgtt gtgtcctagt 300
 ctatgatgtt aattctatga aatcgtttga taatcttcac aactggcgtg aagagtttct 360
 aattcaggcg agcccatcag atcctgacaa tttccctttt gttctgttgg gtaacaaagt 420
 tgatgtagat ggt 433

<210> 34024
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-G11

<400> 34024

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 gggggaaaat tcaaacaatc tatggaataa ctcaaattta ctaacacgtg cactcgatct 120

tgattaaggc accatagatc tattgtaaca taaactattg tcaataatgc aacatcataa 180
 tgacctggat atccccgatcg aaacccccct ttataccact tcaacaactg attttttttaa 240
 cggatttaaa aatggcttgt taagattaaa ccgaagagga tttcccaaca atttcgcaaa 300
 ctgactttac ccttttgctc gccctttaag ttcactataa cccccggatg atctgtactt 360
 ttccgcaatt ttacgcctcg aatttcaata taattcaca 399

<210> 34025
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-G12

<400> 34025

cccacgcgtc cgaaaaaatg gtgcgagaac tcgaaagtga ccccatctt ttctcatgcg 60
 tgctgtcgaa aggcaatttg aagggtcaaag aaatacacca ctttactcaa gatgatctaa 120
 tgacagaaga tgttttcatt ctggactgtc acacgagcat atttgtttgg gttggtcagc 180
 aggtggatgt taaaggcagg ttacaagcta tggatgctgg ggagaaattt attgtgcttg 240
 attttcttat ggaaaacctt gcccggtgaaa caccagtttt caccgttatg gaggggaatg 300
 agcctccctt tttcactaga ttcttcacct gggactccgc aaaatcactg atgcatggca 360
 attcatacca gaggaagctc gccattgtaa aagggtggagg tgctccagca ttggataaac 420
 cgaaaaga 428

<210> 34026
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-G2

<400> 34026

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 gtgttcaatg aggccatcat tgaggagagg gatcagggaa tacaagagat tcaacaccaa 120
 atcactgaag taaatgaaat cttcaaagat cttgctgtgc tagtccatga tcaaggagca 180
 atgatagatg acattgattc ccatatagag aatgctgttg tagcgacttc gcaggctaaa 240

ggtcagcttt caaaagctgc caagactcag aagtcgaact cttcgctgat atgcttgta 300
 ttggttatct tcggcgtggt cctgctcata gtgataatag tacttgagc ataaaagctt 360
 ggaaggcagc tgaggttccg atgatcgagc ttattgcat gaattcctta ttattatatt 420
 tttt 424

<210> 34027
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-G3

<400> 34027

cccacgcgtc cggagacaga ggccttatcc attttgaac aagatgaggc tctgcaaagg 60
 attgactcag atcaaaagca gaaagaagtt gaggagattg aaagtcagaa tgatgaactt 120
 caggtagatg aacagaaaca tgaagacaag agggatgatt tagccaaaga accactagtg 180
 gagtaccaga atttcgaaaa cagagcttca aacaacacaa aagacaatga tgcattcaag 240
 gttgaacaaa cagaggcagc caatagttag attctcaaga ataaagccct acatatatcc 300
 aaggaatcca cccaagcat tatggctatg aaggttgaaa acattaagga aacaagtga 360
 ggaactgaag aagatgatgc tgccaaaaat gataacaaag atgaacagga gaatgcagaa 420
 aatgttgata tag 433

<210> 34028
 <211> 338
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-G4

<400> 34028

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 cctaatacaa aatccaattc tatgttcggc ttataaacca tgatgcgcat gtctcacact 120
 caaatgaatt cactcaaagg caccaccact catccagcct actgctcaat tacactcact 180
 actaccaaac ttaccaaatc cacacatc aaccatagac aaactaatac atctatcttg 240
 attatatacc tactgatcca tttcctttca taattcactt atccatctac tctcgataat 300

taccataaca aacaagacct cataactccta actatcta

338

<210> 34029

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-G5

<400> 34029

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ctgccggcgc cggcgcgcag cagggcgtgt ggagcatcat cacccgcccc atgttccaga 120
gcatgctgag ccaccgcggc gacagcgggt gccagggcgc cttctacacc tacgacgcct 180
tcatcgaggc cgccagcaag ttccccggct tcggcaccac cggcgacgag cagacgcgca 240
ggcgggagct cgccgccttc ttcgccaga cgtccacga aaccaccggt ggatgggcca 300
ctgctccgga tggaccgttt gcctggggat actgccgggt gaaggaacag aaacagacgg 360
accacccta ctatggacga ggaccatac agctaactca taagtacaac ta 412

<210> 34030

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-F10

<400> 34030

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ctcaatatct caaccccaga cagctatctt tcaatccaaa cactgcccac tataaaccat 120
aagactttcc aaattccata tatctattca aatgctaacc aaacttttca taactatctc 180
ctaaaatcca tataacacct tatccacaat ttcatacatc tcaatatact tcaaccattc 240
cacattccta ccatatctgt catcatatca ctatctactt atctaacagt ccatcatccc 300
taatcataat tcaattcatc aactcctaca gaacatccag aattcatcta ctt 353

<210> 34031

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-D2

<400> 34031

cccacgcgtc cgcccacgcg tccgccctcc agaacttcag gtggttttga tctctgcagc 60
tcgtcctcat gagatcttgg agatgactag taagttcatg accgaaccgg ttaggatacct 120
tgtgaagcgt gatgagctga ccctggaggg catcaaaca ttctttgttg ctgttgagaa 180
agaggagtgg aagtttgata cactttgtga tctttatgat acactcacca tcaccaagc 240
tgttattttc tgcaatacta agagaaaggt ggattggctc actgaaaaaa tgcgtacaaa 300
taacttcacc gtatcagcta tgcacggtga catgccccaa caagaaaggg atgccattat 360
gggtgagttc aggtctggcg caactcgtgt gctaataact acagatgttt gggct 415

<210> 34032

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-D3

<400> 34032

gtcacgtca tcatcatgaa caagtggatc ttccagaaac tggatttcaa gttccctcgc 60
accgtgtcct gcgtccactt catctgctct tccattggag cttacattgc aatccatgtc 120
ctcaaggcga aacctctgat tcaagttgaa ccggaggacc gctggaaaag gatatttcca 180
atgtccttcg tcttctgcat aaacattgtg ctgggaaatg tcagcttgcg ctacatccca 240
gtctccttca tgcagacaat caaatctttc actcctgcaa ccacagttat tctgcagtgg 300
ctagtctgga gcaagcattt cgagtggcgc atatgggctt cgctgggtccc tatagttggc 360
ggaatactcc tgacttcggt gacagagctt agcttcaaca ttttcggttt ctgtgctgcc 420
atg 423

<210> 34033

<211> 415

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-013-Q1-K1-D4

<400> 34033

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 tgctgctgct ggcagcggcg ggcagcact cggaggccgc catcacctgc ggcaggtga 120
 gctccgccat cgcgccctgc ctctctacg cccgcggcac ggggtccggc ccctccgct 180
 cctgctgtag cggcgtcagg aacctcaaga gcgccgccag caccgccgcc gacaggcgcg 240
 ccgcctgcaa ctgcctcaag aacgccgcca gggggtcag cggcctcaac gccggcaacg 300
 ccgncagcat cccctccaag tgcggcgta gcatcccta caccatcagc accttcaccg 360
 actgctccag ggtgaactaa aacctagacc acgcgcgacg acngnccgct gatcg 415

<210> 34034
 <211> 426
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-013-Q1-K1-D5

<400> 34034

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 cagcacttgt tcggaagaaa aagaaggtag aacacgctaa caagacaaca aggatcatgg 120
 ggcgcggggc cggccacctc ctgctgccgg cagcagccgc ctgcctgtgg gcgctgtcgt 180
 gcgcgtgct gctgcacgcg tccccacag gcgccggcg cggcggcctg ctgagggtcg 240
 ggctcagcag gcgccgggc gggctcgacc agcgcgcgt ggccggcgcc aaggccgcga 300
 ggcagcagga ggcaagccgt ctggagcct ccggcggcgg cgacgtccct ctgctcgact 360
 acctcaacac ccagtactat ggggtcgtcg gcatcggcac accgncgcag aacttcaccg 420
 tcatct 426

<210> 34035
 <211> 318
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-D6

<400> 34035

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gaataataaa aaaaagagga aaaaaactga aaagcaatct taaactacaa ccaggataaa 120
ctaagccatg gcgccccttc tttcttctctg cctttgcacg tcgttctctc tatacgcttt 180
cttctgcact ggtgctataa acctaaataa tggggccagt atcttcaa at ccagtcacgc 240
taaatcccat tgcgttacta actttactag gggagtgcgc gctctcaatt tccgtaacgc 300
cgacttcac at atgcaa 318

<210> 34036
<211> 426
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-013-Q1-K1-D7

<400> 34036

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agcaacggcg tggaggtgaa gagctacttc aacaagtccg ccgggagggc ggcgagcaac 120
aacaacaaca acagcagcca cgccggcggc ggcaacaaga agggcgggcg cggggagtac 180
ggcaggaaga agcacgcaa gagcgagggc gcggcgggcg cgccggccac ggacaagcag 240
cggttcaaga cgctgccggc gtcggagggc ctgccgggg gccaggccat cggcggggtac 300
atcttcgtct gcaacaacga caccatggac gagaacctca ggaggagct gttcgggctg 360
ccgtccaggt acagggactc tgtgcgtgct atnccgccg gacttgcctt cttcctctac 420
aactac 426

<210> 34037
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-D8

<400> 34037

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ggcgggcggc aacgcccaga agtccaagat ggcgcgcgag aggaacgccg agaagaacaa 120
ggcgggcaaa ggcagccagc tggaggccaa caagaaggcc atgaacatcc agtgcaagat 180
ctgcatgcag accttcacat gcaccacctc cgaggccaag tgcaaagaac atgcggaggc 240

gaggcatccc aagaacgacc tctaccagtg cttccccccac ctcaagaact agtaagcagc 300
agaagcatat gctctgctca gctaaaaaga caagtactac atata 345

<210> 34038
<211> 280
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-D9

<400> 34038

cccactcgtc ctcgtctact tcgttttttt acctctcaca tatgctaata tcacgggtcag 60
cgctacttcc accatcgaga atcataacta aacactctct actaacatcg ctcatcacac 120
aactgtaca cacatactta ttactccat caccacgtca atgatcatcc attatattat 180
atactctgtt accttcatct caaccatttc caatcctgct ctataagaac attcaaattc 240
catctaaaca aactacgata ttttctagat cttccctcac 280

<210> 34039
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-E1

<400> 34039

gcttgcttga ttgctccagg tacctccatt cgcagtcggc cgtgtcctcg gagccgcggt 60
agatggcgga tcaggagacc gtagctgtgg ttgaggcacc taccgccggt cttggggaac 120
cgatggacct gatgactgcc ctgcagctcg tcatgaagaa gtcaggtgct catgatggcc 180
ttgtgaaggg tcttcgtgag gctgccaaag ccatcgagaa gcatgccgct cagctctgcg 240
tgcttgccga ggactgctac tagcctgatt atgtcaagct ggtgtaggct ctttgcgctg 300
aacacaatgt ccatttgttt actgtgtcta gttccaatac tt 342

<210> 34040
<211> 263
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-E10

<400> 34040

eggacgcgtg ggcgcgaatc acagacgcgt ctatctcagc ttgctgcgct gcacgacccg 60

tccctgccat catatcgtag gtgagcccgg ccgagcgaga gcgagggaga ggcatggctg 120

ctccgaagct cgcgacgctg gcgctggccg tgctcctggc ggcgaccgtg gtgggtcccc 180

eggccgcggt gcgcgcggcg aagtcgtgtt ccaccgcgta cagtacgctg ataccgtgcc 240

tgctgatcgc acagattggc ggg 263

<210> 34041

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-E12

<400> 34041

attcccgacc cgacccaccc ttcccacgac ctttcatecc acccctcttt ttcttactat 60

cctcgaccat tctcacacaa ggcgatgtct tcccaaaact ctgaatgtca aattcaataa 120

attcaaccaa actcaataaa cttctcaatt aactattact ctcttaacat acccaaattc 180

catttcattt aattattgac tcccataaat gacttaacta cattacaact atacttctat 240

actatacatc caaaccacat ccacattaac taacttaacc caatcactca tcaaataata 300

ccctaataat ctttactcta taccaacttt tctaaattac ttcatacttt tattataatt 360

tacatcctcc aaccacattt caaataccac tacttttaac gttattttac ttat 414

<210> 34042

<211> 379

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-013-Q1-K1-E2

<400> 34042

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cggggcaggc gtacgtcgag gagcacctga tgtgcgagat cgaaggacag catctcagcg 120

ccgccgccat cgtcgggtcac gacggcagcg tttgggcgca gtccgagagc ttccccgagt 180

taaagcctga ggaggttgct ggtatcataa aggactttga tgaacctggt actcttgac 240
 caactggtct tttcgttgga ggtacaaagt acatggtgat ccaaggtgaa cctggagttg 300
 tcatccgagg aaagaaaggc actgggggca ttactatcaa gaaaaccggc atgtccttga 360
 ttatnggtgt ctacgacga 379

<210> 34043
 <211> 360
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-E4

<400> 34043

cgggcgcgtg gcgaaatttc catttataag accttctcga ttgtgcccaa tatttgatgt 60
 cgggtaattc ctacggcctg gggggaaaaa agggcattaa cttattatag agattgaagcg 120
 atttgactat tttttttttt aaccgtacct atatctcatt cttacaaaac ttacacaggg 180
 ttcagcctag agagaacagc tgttatcata ggagactctg actagcctaa ggctatggga 240
 actactggtc ttttctgtgg aggatcctag ttcgttgtga tccaaggtgt acctgtagtt 300
 gatatactaa gaaagatagg cgctgcgggc attactatcg ataagaccgc catgtacttg 360

<210> 34044
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-E6

<400> 34044

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 gagttttcgt attcctgcag tacaggtaca gccacaacgg ctcgggaatt ccatggctct 120
 attggattgg atggaaaaat tccttttcat ctaagtggaa ggatcctgta tttttttact 180
 aggaattctg ctccctcgaa aagtttttct ttggggaaaa ccaaaataaa aagagaatgg 240
 aagaattctt cttattccat aagaaaataa aggaacccta gaattccatt tgcataaggt 300
 acattacgcc atacaatcta aatataaaag gggatgggg caattaatga ctttgaaaac 360
 gcgaaatagc tgatgaggga agttgctgtt gagaaatagg aaagtggaat gaaa 414

<210> 34045
 <211> 328
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-013-Q1-K1-E7

 <400> 34045

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaataaaaaa aaaaaaaaaa 120
 aataaaaaaa aaaaaaaaaa aaaaacataa aatttttaaat ttcaaaaatt ttaattaaat 180
 taaattgaaa attttttttt ttttttaagt tttcttaaat taaattaatt aactttatgt 240
 tttaaaactt ttttaattta aaaaaccttt tttttcccca atttaattac ttttaaat 300
 ataaactttt tgttacctca tattttat 328

<210> 34046
 <211> 291
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-013-Q1-K1-E8

 <400> 34046

 aaaaaaaaaa aaaaaaaaaa aaataaaata aaaaaaaaaa aaaaaaaaaa aaaaagaaaa 60
 gaaaaaaaaa aaaaaaagaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa ggcgcctttt ttaaaaaatc aaaatttaat tccccttctt ttcaaatcaa 180
 aatttttttt atggggcccc caaaattaaa ttaattgccc gttttttaa aacttcataa 240
 ttggaaaaac ctttgattta ccaaatttaa ttacttttga aaaaatcccc t 291

<210> 34047
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-013-Q1-K1-D12

 <400> 34047

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taaaattctt gtttcttaat aaattgcagc cctttgttgt gttcttggcc agcttagttg 120
 atttgtagtt aagcttcttc acccttagtt gtgtttatgc tctgcttagt tgatccatta 180
 ctgcaggtct tggctgaact tccagctcca gttctaaatg gtacaatgct tacagtcgaa 240
 gatttgcac aggaactaaa atgcagtatc aacatcaaac acagggatga gttcgatgaa 300
 gaaaaggagc ctgacagaat ggttcttggt ggggtggtctg gccagttga taagcaaacc 360
 actaataatg gtgagactaa atcagttcca tcttcatcca atacagaaga tgtggatggt 420
 act 423

<210> 34048
 <211> 244
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-E9

<400> 34048

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 atcataacat tacatctatg agggcttact ccatcttaca gtcagcacct accatcttat 120
 cttcatctga cctactatcc ttactactat atttactg tataacataa aaactatcct 180
 acaaaataaa tttcaaaatc tctacactat cgtttaattc atcacttttc aaatactctc 240
 tttc 244

<210> 34049
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-A9

<400> 34049

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 gggattctca tggcactctt cttgaacact gctggcgggc cctgggataa tgcaaagaag 120
 tacattgaga ctggcgctct tgggtggcaag ggcagcgagt cccacaaggc tgcggttact 180
 ggcgacacgg ttggagaccc attcaaagac actgctggac cgtcgctgca tgttcttata 240
 aagatgctcg ccacaatcac gctgggtcatg gctccgatat tcttgtgatt aaccagacca 300

ctcatcaagc ttgctattaa ccctgcgagg atgtacctat gcgaccaggt agatgaggtg 360
 tgtgtgtgtg tgcgttacct gcatgtgatg atgtaacggt ccaatcggtt tgtgtcacga 420
 catgct 426

<210> 34050
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-B1

<400> 34050

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 tcgggaagct cttcagccgg ctcttcgcca agaaggagat gcggatcctc atggtcggcc 120
 tcgacgccgc cggtaaaacc accatcctct acaagctcaa gtcggcgag atcgtcacca 180
 ccatccccac catcggtttc aatgttgaaa ctgttgagta caagaacatt agcttcactg 240
 tctgggatgt cgggggtcag gacaagatca gacctcttg gaggcattac ttccagaaca 300
 cccaggtctt tatttttgtt gtggacagca atgaccgtga ccgtgttggt gaagccagag 360
 atgagctcca caggatgctg aacgaggatg agctacgtga tgctgtgctg cttggttttg 420
 ccaacaagc 429

<210> 34051
 <211> 323
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-B10

<400> 34051

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 gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa agacaaacaa tataaaaaaaaa tccagcctta 120
 cctcttagtg catccaacct catatctctt ttattgagac accttaattc ttttactgg 180
 ccacctatth acaacttact gactgggaaa tcccatcctt tacccaacta aatccctttg 240
 cttcccatcc tcatttcccc agctgccctt ctacctttca gccctgacc tatctccctt 300
 cacatcagtt ccgctccctt ttt 323

<210> 34052
 <211> 401
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-013-Q1-K1-B11

 <400> 34052

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 ttaccgggtg agcggatcga gatggctgcg tccgatgttg agtaccgctg cttcgtcggc 120
 ggcttcgcct gggccacgga cgaccactcc ctccacaacg ccttcagcac ctacggcgag 180
 gtctctgagt ccaagatcat cctcgatcgg gagacgcaga ggtcccgcgg cttcggcttc 240
 gtcaccttct ccacagagga cgcgatgcag aacgccatcg agggcatgaa cggcaaggag 300
 ctggacggcc gcaacatcac cgtctactag gcccaatccc gcggcgggcg ttgaggctgc 360
 ggcggtatgcc ggtacggtac tggccgtgga tgcggcagct a 401

<210> 34053
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-013-Q1-K1-B2

 <400> 34053

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 catcagagat gtccagtatc ttttaactgc tccaagata taaaagagc acagggtcaat 120
 caccgaaaag gatttcttta gtgctgttcg acaccacctc caggagcagc gtgaggcctc 180
 accgttgctg catgatgtca tcacttgcaa aaaggatgat acaatcaagg acatcatact 240
 gaagctggac tctgagaaga tccacaggat ctacgttgtg gatgacaaag ggaacaccga 300
 gggagtcac accttgaggg acataatctc caagctggtg catgagccac gccattactt 360
 tggggatttc tttgatggtg ttgttcccct gcctgcaaac agcaccgtat gacacatctt 420
 cgc 423

<210> 34054
 <211> 433
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-013-Q1-K1-B3

<400> 34054

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tcgatctgtg acgaccgcca agccgaagcc gaaggcagca gcagtcgtca agttcatcga 120
tctcggcatc gacgaccgcc cgtccatggc gcggggcaag gtgcagctgc ggcgcatcga 180
gaacccagtg caccggcagg tgaccttctg caagcgccgc gccgggctgc tcaagaaggc 240
ccgggagctc tccgtcctct gcgacgcca cgtcggcatc atcgtcttct ccgcgcacgg 300
caagctctac gacctcgcca ccaccgggac catggaagag ctgatcgaga ggtacagggc 360
tgccagcaac ggngaagcag ccgacggctg cggcgacaat aacagaatgg acccaaagca 420
agaaaccatg gtg 433

<210> 34055

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-B9

<400> 34055

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ggatggtgcc agtttccagc agagtgtcca gaataaagaa caagtgaggt tctacttcga 120
agcgtgaaac cttttgtcga ccttgcgagt aatcgtaaa aggataaaca gttttggagt 180
gcggtccaac cgtgccgtag aagcccgtcc tatgatccga aggcaagttg gcatcttgcc 240
atcgaatagt tccattatct tctcaaataa gttgggatgt ttgaagcgat tttagttttt 300
ttttggtcat attctttagg tgtggtgtat agatatattg cttattcttg ttgtaaatta 360
gttcatatct ggtactggta taatgacaac tattaatacc ac 402

<210> 34056

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-C10

<400> 34056

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gcgagtatct ggcaacgctc cgggtgaatta cagcaactgg aggtgaggcg accgctgcgg 120

tgccgtgcat caccaccctg ccccggtgcc cccccgctcc acgacgacgc ggcacccgca 180

cgtagtccgg acggcgagca cttgagctga gtcggccgcg cttcggcttt ctgcgccgag 240

ttgctcgggtg ccgcgtcttc cctctttcgg cggcgtgatc tgcgtctcgg cgctaagaga 300

gctgtcgtct cccggtcccg gcaattgcac aagaccttga gctgatcggc cggccttctg 360

cgcgacggtg aatctccgct tctcattttg ataatttccc gcaagtcccc tcaattcgga 420

tttgactgaa g 431

<210> 34057

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-C11

<400> 34057

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caagcacgtt agggccagga tgaccaagac gttggtgcc a tagggacgca ggagcagcaa 120

cagcagcaag agcgtagtgt gtagtggtcg gaggagcacg cgcagtagga agactgatgg 180

tgtacagtga cccagagttg ttgcacctaa ggattgtgtt cctggaattg agatccttca 240

cagaaaggcc aaacagggtca aattccatgg aacaattatt atcagtcgta aactgacgaa 300

cagaaagaag attcttaatg atatcaggtg taacaagaac attgctaaga taaaactggc 360

cagaaagcac catatc 376

<210> 34058

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-C2

<400> 34058

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agggccaaact gctcctgggc cttgtgggtt cgcttggcgt gctggcattc ttcttccttg 120
gcggttacca agacttctgg attggcgacc tattcggcgg cggcacgccg ggcggttacc 180
cgtgcaagcc cccgaaggac ctgaccggcg accactttca ctatgggggg cttggcaacc 240
ccggcaccgg gcttaaacc cttcaagaact tcttgggctt gggcgtcgtc aacacgtttc 300
cc 302

<210> 34059
<211> 190
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-C3

<400> 34059
aaaaaaaaa aaaaaaata aaaaaaaat aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
agaaagaata aaaaaaatg aagagataaa aaaaaaata aatcaactaa actattattt 120
taaaatTTTT tatttttaat actattaaat tacttatttt ttcaacttta caaattttta 180
aaaccttata 190

<210> 34060
<211> 241
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-C6

<400> 34060
acaaaaaaaa actacaaaaa aataaaaaaa aaaaaaata aaaacaaaag ggggagggtta 60
aactggtact ggcttaagga cttaaattta caacctgcat tattctatcc ttagccaggt 120
acaagaattt ctattcccc aacttttcaa cggccgcact gccaaacgct tccccctcca 180
aaccceaaaa gacctgaacc gcatccaatt tcaataatgg ggccttatca accccaggcc 240
c 241

<210> 34061
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-C7

<400> 34061

ggagaagggc cacttgggag tgtgtattgg ggacaagttt gggatgggtc tcagatcgct 60
gtcaagaggt tgaagagtgc aaagaatggc acagaagcag aatttgcttc agaagtcgag 120
atattgggaa gaataagaca caaaaacctc ctgagttttc gtggatattg tgcggatgga 180
cccgaacgga ttctggtgta tgactttatg gcaaactcaa gtctctatgc acatcttcat 240
ggaccacatt ctgctgagtg tctccttgac tggcggagga gaatatctat tgccatcaac 300
actgctcggg ctctcttgta ccttcaccac tatgcaacac ctaagataat ccatggaagc 360
atcaagacca ccaatgtgtt actggattca gatttccagg cacatgttgg cgatttcggt 420
ctga 424

<210> 34062

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-C8

<400> 34062

cccacgcgtc caccctgcaa ctgctacatt ccacctgcag tcgtcacacg tactgacagt 60
tattatatag ggcggcgctc gatcagtagc acatcaaaca tggctatcat gataaatcga 120
ctagtcactg aagtacccaa caaatgacgg tagtgctctt acttgaccta tcgcagtaca 180
tttccctgtc gtacaagatc tcatccttcc cattcttcta ccaactgtat cactgcctcc 240
acacacgcgc catcta 256

<210> 34063

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-A8

<400> 34063

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gagcacctag cagcgcgcgg ccggcgactc caccgagaca cctcagccgg ccgcgcggtc 120

gcggttgccct ccggttggt cctcgctcg atggtgggga tgtaccagca ccaactccgc 180
gacgaccctc tgcacaccct aagcggcggc cactgcgagg tacatggcgg cggacagccg 240
cggcagcggg tcgaggcgct tgccgacgga agaagcatgt tgcgcggcgg gggaagcggg 300
atagttggcg ccgcgggtgg agatctaggg gtgctagcgc ggtggatgcg ggaactcgca 360
gcggatcccc tgggtccact tcccgcgcca tcagagcaca cggtgaggaa gcggcacgtg 420
ctggcat 427

<210> 34064
<211> 307
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-D1

<400> 34064

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accgtttcat tcattcacgg gatatactat ttcatacaaa cttacattac aactacatat 120
tctcaatccc atacccttaa ctttacttta accacataac ccctttaaaa gcatattctc 180
aatctccttc taatactgca taaacattca tcatgcaaat atcacttttt gctacatccc 240
attatcctta atgcatacaa tcaaattctt cacttctaca accacactta ttataaaatt 300
actattc 307

<210> 34065
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-D11

<400> 34065

cggactcgtg gtaaaaataa aacataaaac aaaaacaaaa aaaaattaaa cataaaggga 60
aggctaacta aatataccag aaaatacata cacaacatt caatgatatc acgcaaaaaa 120
cctttacctc aactttttaca tctctcacct tcacaatccc ctttcacctt tggttgtacc 180
gctacaaacc atattttaat gcattacttt tcaatggcac tctttccagc acttgaaaat 240
tccctataac atgctccatc ctgccttcct acatcttcaa cccatatgaa gacatctgta 300

gaacaaccac acatagagca atcttcccat gatcattttc tctttccaaa acttactaat 360
tctcaattcc atattttatt agatttcatt 390

<210> 34066
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-G5

<400> 34066

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agtctattcc tgatcctggg aagcaatcgc actccaatga cacaattctt gttctatcat 120
ggtagctaac ccaaattaac aactctatga ttaacacctt gtgcaaatac taagaccaca 180
gcttctgtca acttagttgc tatgaatgta atccctatct tttcatctga catcacatag 240
accagacaa ttcaactgaa ctgaataaca tttagaacaa ctgaaagact accaagatgc 300
atcttcacaa aggactttta acacggttgc tatga 335

<210> 34067
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-G6

<400> 34067

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cctcctcctc cttgccccgc cctcgcgcg cgctgggga aaggagggcc acatcatggt 120
ctgcaagatc gccgagaagt acctgtcgga gaaggcggcg gcggcggta aggcggtgct 180
gccggagtcg gcgggcgggg agctgtcggc ggtgtgcccg tgggcggacc aggtgcgctg 240
gcactaccac tgggccagcc cgtccacta cgccaacacc cccaagtct gcaacttcaa 300
gttttctcgg gactgccaca attctcgtgg ccagcaaggg atgtgcgctc tcggggctat 360
caacaactac acggaccagc tctacagcta cggccagaag acttcgtata acctgacgga 420
gagcctgatg ttcttggcac acttcgtcgg cgac 454

<210> 34068
<211> 453
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-012-Q1-K1-G7

<400> 34068

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ccccgtgtga ccaatgaaga agtccagaag gctgctgctg ctctcaaggg ctctgaccac 120
cgccgtggga ccaacgtagg tgctagattg gatgccagc agaagaagct taacctcccc 180
atccttccca ccactacaat cggttcgttc ccacaaaccg ttgagctcag gaggggccgc 240
cgtgagtaca aggcaaaaaa gatctctgag gaggaatacg tcaactgccat caaggaggaa 300
atcaacaagg tcgttaagct tcaagaagag cttgacattg atgtgcttgt gcatggcgag 360
cctgagagaa acgatatggg tgagtacttc ggtgagcagc tctccgggtn tgcgttcact 420
gccaatggct ggggtgcagtc ttatgggtca agg 453

<210> 34069
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-G8

<400> 34069

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tggcgagcgc ctgcgccacc tccatcccc tcgtctcggc gccctctgca tgcccgcca 120
agaagaccac cgtcgccagg ttccggcgcc gcacggcgac gtgcagggcc agcagcggcg 180
gtggcggtgg ccggtgcggc gaaaatgatg gcctcctttg gctgccccgg cgggacgtga 240
tgctcaacgg cctgtccagt gtcgccgcgg ggctcgctg gtacccgggc gtcgcgtccg 300
gcgcggatgc ggtgtgcacc agggccgaca aggtgaacga gaagaccgtg cagtgcacgg 360
acccggccgg gcagcttcgg tgccctctgg tgtcgccgac tgaccccggtg gacttcaagg 420
actccatggg caaccagctg tacgaccca a 451

<210> 34070

<211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-012-Q1-K1-G9

 <400> 34070

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 tgaagaccat aggaaattat gcttcggtgt tgatggcaca gaaaattgca aaggaaaagg 120
 gttattctga tgtcctctac ttggacgctg ttcacaagaa gtaccttgaa gaagtttctt 180
 catgcaatgt ttttgttgtc aaggacaatg ttatttctac cccagcaata aaaggaacaa 240
 tattacctgg tatcacaagg aaaagtataa ttgacgttgc tttgagtaaa ggcttccagg 300
 ttgaggagcg gcttgtttca gtggatgaac tgcttgatgc tgatgaggta ttctgcacag 360
 gaactgctgt tgtggtgtct cctgttggga gcattacata tcaagggaaa ag 412

<210> 34071
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-012-Q1-K1-H1

 <400> 34071

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 tgctgcttga ttagaaaaag gagatccacg gcctgtgagt aactacgcca tgttacgaat 120
 cacagcctga ctctctctag atgaaagcat aggtagtac gacctattgt tttcttctca 180
 gcggacccaa tgagtaacta cgccatgtta cgaataaaaag cgagggaaaa tcggatgagc 240
 aacttttgca gctatatgaa atgcactttg gaaaatcagg tcttgaggac gaaaaacacg 300
 ataaaatgga cttgcctact ttgcaccga agaaactcat aagtaatcca atttccgagg 360
 acacgaacgg aagtaagctg tttttggtat tcgtatcgga attagccaga agaagaaacc 420
 attttcactg ccttcatc tttg 444

<210> 34072
 <211> 211
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-H10

<400> 34072

accacgcgt ccgcggacgc gtgggcgcgc tcttgctcct tatcgacatc tctgttctcg 60
ttgagctgac ggtatattcc aacggtaggt tgtaacagat gttcctacac ccacaaatta 120
cctacatgac aatgtctttc gcccgatcg ctctctgtg gccggacgtt ttatccaaca 180
cgagcggcac tgcaccaatg aggaccaca g 211

<210> 34073

<211> 205

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-H11

<400> 34073

cccacgcgtc cgactgatag gatcttaagg ttttaatgag tacatgtaat tcgggatagt 60
agctaactct aacttaagag gcctggttg agttcacact tcacggggta aaatagcagc 120
ccaaattaca tgtactgata ggatcttaag gttttaatga gttctgcttt gtttttcaat 180
tattatatag ttaatatattg tagtg 205

<210> 34074

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-H2

<400> 34074

cccgcgcgtc cgcccacgcg tccgcggacg cgtgtgcgca taaccagaaa acccactggg 60
ctgggcttga ttagaaaaag gagagccacg gcctgtgagt aactacgcca tgttacgaat 120
cacagcctga ctctctctag atgaaagcat aggtagtac gacctattgt tttcttctca 180
gcggacccaa tgagtaacta cgccatgtta cgaataaaag cgagggaaaa tcggatgagc 240
aacttttgca gctatatgaa atgcactttg gaaaatcacg tcttgaggac gaaaaacacg 300
ataaaatgga cttgcctact tttgcaccga ataaactcat aagtaatcca atttccgagg 360
acacgaacgg aagtaagctg attttggtat tcgtatcgga attagccaga agaagaaacc 420

attttcactg cccttcattc ttg

444

<210> 34075
<211> 256
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-012-Q1-K1-H3

<400> 34075

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cccagcacia ttctcattct cacaaccgta cccaccacca ctctcactct cactccggag 120
gaggtggagg ctgcggcggc nggtgggcct gcgggtggagg cggctgcgga gtggctatat 180
gccactgcga ttgctcacac catgatcatt cacctccaag gcaaccgttc ttcccttcac 240
cgcatcttcc attttt 256

<210> 34076
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-H8

<400> 34076

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tttcgtacct ttagtaggct tagtatttcc ggcaattgca atgacttcct tatttcttta 120
tgtgcagaaa aataagattg tctagaaacg acggggccaa attttctcaa tgtatttcca 180
ggatcataat acagatattt ttttgcgtaa gtactataat atgatagggt atgtagctct 240
ttctacacac aaatgaaaaa cgtctatgga tgcagatata agctacgagc ataaatgcat 300
gcatatgcgt agccgactat agcgagtttt tcttttttta agtggatcca ctaatttttt 360
ttgaatagaa agtcaatgta tctaaccaat tatttcacag gagtactagc tactgaacgc 420
tat 423

<210> 34077
<211> 236
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-A1

<400> 34077

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taggtttccc ctattgacgg gtatccaacc actagcacac cctctttaca attttacgtc 120
ttttccccc caattatacc ctctagattc attctcttaa actctaccct cccatattct 180
ctataaatac acacctttta atgttataac ccctaacttc ccggaccctt tctcac 236

<210> 34078

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-A4

<400> 34078

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ctgactctga cagcaagcat tatgtactgg tatttgaaaa ggccaacatc acaatcattg 120
gactctgaaa acgggagttc atgtgaaaca acctccatca caacttcaga tgattctgca 180
tctgaatcat cgattgatga caatacaact agataaaaaga gcagggtcat gaaaataatt 240
gatatgacct gtcattttga aaacttgga ttgattgttt gctgtaattt taagggcaaa 300
tacattcaag accgaggcaa gggaaatggg taagggtttt ggggtgtttt ttgagggtta 360
atagtgtgat tgggtgaaag atgtttgaca tcctgtaa atctctataa ctagtgacaa 420
t 421

<210> 34079

<211> 187

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-013-Q1-K1-A5

<400> 34079

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ccctattggc ggggagccaa cccctatcag ccagcttga taatcttgcg tctcaccgc 120

cccaattgta ttctctagat gcgtcctcag ctacttactc agcccaagtt ctctgtaaag 180
agactcc 187

<210> 34080
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-A6

<400> 34080

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cccaggtctt cgtcgggtccc ttgcccgcct cttcgccgcc gatgagcacc agccaggaag 120
aaaagaagtt gaaccatggg gaagagaaaag tcagctgcta agccacctcc taaggaagcg 180
gatggacaag cttgacactg tcttttctcg tccattctgc aaccacggga gtagtgttga 240
gtgccgaatt gacatgaaga atctgattgg cgaagcatct tgtagaatct gtcaggaaaa 300
cttcagcaca actgttaatg cactcactga gcctattgat attgaatgga ttgacgagtg 360
tgagtgtgtc aacactgttg aaggcgacga tgatgcgtga gcttgcccca tgcgatgaaa 420
ct 422

<210> 34081
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-A7

<400> 34081

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tcgcgttcgg gaagctcttc aggcgggtcg gcgccacgaa ggagatgcgg atcctcatgg 120
tcggcctcga cgccgccggt aaaaccacca tcctctacaa gctcaagctc ggcgagatcg 180
tcaccaccat cccaccatc gggtttcaatg ttgaaactgt tgactacaag aacattagct 240
tactgtctg ggatgtctgg ggtcatgaca agatcagacc tctttggagg cattacttcc 300
agaacaccca gggctcttatt ttgtgtgtgg acagcaatga ccgtgaccgt gttgttgaaa 360
ccagagatga gctccacagg atgctgaacg aagatgagct acgtgatgct gtgct 415

<210> 34082
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-G3

<400> 34082

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tcttgacta gatatttata tactgcaact cagaaagggt ttatttcgac aatggcgaca 120
tacctcttcc tactaatccg tccatcaaaa tcatcatctg ctactccgtt ctttatgtct 180
ctcaaaccag tactgatcac tctcccttgc gctcctgctg acaataagca acctctatcc 240
atctcttact ctgtttattc caatgctaac gaccatgcct tcaacatctc tcccatcccc 300
cttgtagatt ccaacattca cccaacttct actcctctat gggagatcaa tgaatatggc 360
aatgaaatca tgettacatt cttcaacttg tctgactcta ctacaa 406

<210> 34083
<211> 210
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-E2

<400> 34083

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aaagaattat aaaaaaaaaa aagaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaattaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaata aaaaaaatac 180
atataaaaac aactaaaata aaaacaaaaa 210

<210> 34084
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-E4

<400> 34084

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agggtttata accatccact gattacatcc aaagctcaag atgctaggag ggctatgac 120
 tatgttcatg ccacattgat gatagtgcac tatgcttaca tcattcattat gtccaccaac 180
 attaaccaca ggtccatgga cggagcctgt gactctcaga tcaccatgtg ctcgtaggag 240
 ccgtaccacc tgtcaactag gcaacctgcc cgaggcctga tccaaggctt ccagatgtca 300
 tattggttcg aacaccagca gatgctgcac taattattcc accg 344

<210> 34085
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-E5

<400> 34085

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 gccgccgtca tcctcctcct catcttcgtc gtcgtcctcc cctgaccatc aggagatcga 120
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 <212> DNA
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<400> 34087

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 tcaaacattc ttttactatg caacacatca ctatgaactt attaatacta ctctcctctt 180
 catacggaac ttgactgctt cacttatttc tcctttctaa tctgtacatc tacgtcgtac 240
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 <212> DNA
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<223> Clone ID: LIB3068-012-Q1-K1-E9

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 aagcattctg gtagttggca ttgcagcatt tggaacgtat taggaatatg ctacagatca 180
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 ctgcaatccg tgcatacct gacactagca atctgtttat tctaccgaat ggctcctgga 360
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<210> 34089
 <211> 443
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-012-Q1-K1-F1

 <400> 34089

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 aaccaggcgg acccgccgcc ggccgatggc ctgcgcgtgg accgctgggc cggggccagg 180
 tacgcggtcg tgcgccgctt cggcggcttc gtggcggacg ccgacgtcgg tgagcaggcg 240
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<210> 34090
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 <223> Clone ID: LIB3068-012-Q1-K1-F11

 <400> 34090

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 tctagcggcc ggatcgggac aatgaggctg gaccgttcaa cgaaaatgag ggtagttacg 180
 acgcatcgag cgctgtctat actagcattg tcggcaggcg tcgcgacact ggagtgcagg 240
 tcggcatctg cactaagat gactatgttg acgatgaagc taaatccaga ctaggtatac 300
 tgacactgag gtaccaatt gagcactgaa ttcgtcaaga actgggatga cattgagaat 360
 atct 364

<210> 34091
 <211> 384
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-F12

<400> 34091

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ggcaagggcg gagcaaagcg ccaccgtaag gtgctccgtg acaacatcca gggcatcacc 180

aagcccgcga tccgtaggct ggctcggagg ggcggcggtga agcgcatctt ggggcttatt 240

tacgaggaga cccgcggcgt cctcaagatc ttcttcgaga acgtcatccg cgacgccgtc 300

acctacaccg agcacgcacg ccgcaagact gttaccgcca tggacgtcgt ctacgcgctc 360

aagcgccagg gccgaaccct ctac 384

<210> 34092

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-F2

<400> 34092

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ggggccggat cgaacgtcgg cgttttcttga aacttcaggc tattagaaga gcttgagcgt 120

ggagagaagg gcattggtga tgggacaggg aactatggaa tggatgatgc tgatgacatc 180

tacatgccgg catggactgg taccatcatt gggccctgac aatactgtac atgaggggtcg 240

catctaacag ctgaaagttg ttctgtgaca aagactattc cgagaaacca cccatctgtc 300

agattccact caaggaatca acatgacatg cgtaatacac gag 343

<210> 34093

<211> 237

<212> DNA

<213> Zea mays

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tcaaccatag gttcatggac ggagccacag actctgagat cgccatgggc gcgtacc 237

<210> 34094
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-F6

<400> 34094

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ggaagagaaa gattctcaac gtctaacagc tgcttttagct tgaatcgggt tgcgctgagt 240
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accagaatt gtcataaaa ctctgtttca acattttctg ggtttagagc acattagaaa 360
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cccgttcag attggaaagc caaggtagtg gc 452

<210> 34095
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-G1

<400> 34095

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cagctggtag gccgtccttt gggctctctca aaccagtagt ggtgactctc ccttgcgctc 180
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atgccttcaa catctctccc gttgcccttg tgcatgccaa catgccgcca acgtctacgc 300
cgcgatggga gatcaaggaa gatggcaagg aagtcaggct gacattcttc aacttgctcg 360

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gcacgaaacc caagcc 436

<210> 34096
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-G10

<400> 34096

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gccctatctt ggagtcaatg gagtctggca ggagaccatg aagaagcatg ccaactgggtt 240
tgtccaaggt gccctgaagc gtgatgagtt ttgtggtttc atcatgtagc cgttcaacgt 300
aaaaacagta tggaggtata totaccacca cctgatgatt tgatgaacca cagactgtcg 360
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<210> 34097
<211> 397
<212> DNA
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<223> Clone ID: LIB3068-012-Q1-K1-G11

<400> 34097

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<210> 34098

<211> 402
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-012-Q1-K1-E12

 <400> 34098

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 <211> 402
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-012-Q1-K1-C12

 <400> 34099

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 <211> 181
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 <223> Clone ID: LIB3068-012-Q1-K1-C2

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cttcttcagc aacaaccggc caacaatggg atggctacga cagtcctgtc cacctagcta 180

c 181

<210> 34101

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-C3

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cacaagaagg acgaggagca gcccgccggc gagtacgggt actccgagac cgagggtggc 180

accgccaccg gcgagggcga gtacgagagg tacaagaagg aggagaagga gcacaagcac 240

aagcagcacc tcggcgaggc cggcgccatc gccgccggcg ccttcgcact ctacgagaag 300

cacgaggcga agaaggaccc cgagcacgcg cacaggcaca agatcacgga ggaggctcgt 360

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gaccac 426

<210> 34102

<211> 412

<212> DNA

<213> Zea mays

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<400> 34102

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tcatttgtca ggacttttctg gagtaagtgc tctggctcgg acaggacatt tatttcatgt 360
tgctattccc ggatccaggg tggagttcgt ccgatggaat catttcttag at 412

<210> 34103
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-C7

<400> 34103

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gtgcataccc tccggacctt agtctcatca caaaggcaag gcacaatggc cagaactatg 180
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gagctgttga gtatgaggat ggtacacctg caactgaagc ccagatgggt aaggatgtcg 360
tatcattcct ttcgtgggca gctgagcctg agatggaaga gagaaagctg atgggagtga 420
aatggatctt tctactatca ctagcgc 447

<210> 34104
<211> 311
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-C9

<400> 34104

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agcaatggaa gaggatgatg acgaatatca aataccgaaa tcaaggcggc tgagatgagg 180
aatcaagaaa gatgcttcaa agaacgtaag cgacgcccac atacagcagt accacgcatt 240
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<210> 34105
 <211> 419
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-012-Q1-K1-D10

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 tggcctcatc cggtttgtct cggttcactc aagccagcag atctacacca gggcaacaaa 360
 tacctaagga tgggattccc ttgtttgcc tctctgtagg agctcgtctt ctttagaac 419

<210> 34106
 <211> 452
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-012-Q1-K1-D3

 <400> 34106

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<210> 34107
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 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-D4

<400> 34107

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atggaccaca acagccccgg cgcgaggatc atccgcagca tcctccgctc ctgatcgccc  180
acgcgcctcc tactgcggcg gcgcggggcg gcgcgcgaga gagcgaggtc ggcgacgacc  240
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tctctctctc gtcgctcta catgtgtgtg tacctttctc ttcctttcac ctgectgtct  420
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<210> 34108

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-D6

<400> 34108

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<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-D8

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<210> 34110

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-D9

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<210> 34111

<211> 208

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-E1

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ctctaataatc attaccaata aatccatctt cattccccctt actatataac atcctctctc 180
ctactatcca ccatactctc caacttaa 208

<210> 34112

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-E11

<400> 34112

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caaccttttaa gggtaggaca attttaggct cgcaaaattc tatccttgtg aggaagcatc 180
ttggataatc tgtcacgtcg gccatgttct tcgtggcctg ttggtgccgt cttgggttgcg 240
caagaaagtt tctctcgagg acagttgctc cgtcttgttg aatttttttt tgggggggct 300
tgtaagagca tttgttatag aaactcacct caggtggtgg ggttgcatc tccgagttgt 360
caaagtttat tactggttcg gagtagattg tatat 395

<210> 34113

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-C11

<400> 34113

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cctctcgggc gcgacccat gatcgggtgat aactcgacgg atctgacgcc cttagttcca 120
gcgacgcatt attcacatat cggccctatc aagtttcaag ggaaagctct gaacctccca 180
tctcggcgtc tggctaccta gaattacact ccgattacca agcggatgcc tgccaaactt 240
ctaatacatt caatgtaggc acttagttcg catattaacc tatattcact cgtacaggta 300
gtgacgataa ttaactaaga ggacgtcgct cgagattact cagcctacat agcgtgcac 360
gcaacttcag tagcatattc atagtgttac ctaaa 395

<210> 34114
 <211> 371
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-012-Q1-K1-A12

 <400> 34114

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 gccgctctgg tcatgggcgt cttcgccgct ttggctaaag aaaatgccct ggttgagagc 120
 aaggccatcg acatcaaccc ggggcagctc aagtgtgca ccaactgcaa cttctccttc 180
 tcggggctct acacctgcga cgacgtcaaa aaggactgcg accccgtctg caagaagtgc 240
 gtcgtcgccg tgcacgcctc ctactcgggc aacaacaagt tcaggtgcac cgacaccttc 300
 ctcggcattg gcggcccaaa gtgctagatc agagaggaag aacgcgcgct gctgctagct 360
 gctatagctt c 371

<210> 34115
 <211> 170
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-012-Q1-K1-A3

 <400> 34115

 caggaaaaaa aaaatatata taacacactt tataaaagat ctagctacta acaaagtaag 60
 acgcgttatg atagatgggtg acgggggtccg gatgctccat tatgtgcttg cagatctagc 120
 atgtgtgccc ggcattgcaa cttacgttcc tctttttcac tgggtccatat 170

<210> 34116
 <211> 286
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-012-Q1-K1-A4

 <400> 34116

 gccggcaaag atgagctgct gatggtaatg atgatgataa gaggccactg ctaccctacg 60
 acggaccctc ctctttgtgt gctgccatcc gtccccgtta gacgatcgag gagagaataa 120

cgagagctc tctgctcccg gcctgtcttc tgccgtcccg gccgtttaat ttactagtgt 180
gttcgtccta tatgttttagc agcagcaggt gtattgtgcg ggtatgtaat ggtattgcaa 240
ctatattggg tgtaaaacca taataaatgt gggcaaatat gcaagg 286

<210> 34117
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-A7

<400> 34117

caagcaactg caaagcagca agctctactc ttcttctgta ctgaacgtgt gactggatga 60
caacaagcgt gaaccatggc ggacgagtac ggccgcagcg gctacggcag gtccggcgcc 120
ggcgacgact acgacagcgg ctacaacagc aagtccggca ctgatgacta cggccgtggc 180
gaaggtggct acaacaagtc gggcgggcgat gacgactaca gccgcagcgg cggcgatggg 240
tacggcaggt ccggcgggca cgactacggc cgtggcaccg gcggcggtgg ctacaacaag 300
tccggcgggc gagacgacta cggccgcagc ggcgggcgac actacggccg tggcaccggc 360
ggcgggcggt acaacaagtc cggagacgac ggctacgaca gcgggtacaa cagatcgggc 420
accaccaacg acgacgaata 440

<210> 34118
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-A8

<400> 34118

cccacgcgtc cgcccacgcg tccggcaagt ctgcgtacgt agcagtgcaa taaaagaaaag 60
cagccgcaat ggcgagcagc accatggccc tctctccac ggccttcgcc ggcaaggccg 120
tgaacgtgcc gtgcgtgccc gccttcggcg aggcccggt gacgatgcgc aagacggcgg 180
cgaaggccaa gccggcgggc gcgtccggga gcccggtgta cggccccgac cgcgtgctgt 240
acctggggccc actgtccggc gagccgccga gctac'tgac gggcgagttc ccgggcgact 300
acggctggga caccgcggtg ctgtcggcgg acccgagac gttcgccaag aaccgggagc 360

tggaggtgat ccactcccgc tgggccatgc tggggcgcgt cggctgcgtc ttcccggagc 420
 ttctcgcccg caacggcgtc aagttcggcg 450

<210> 34119
 <211> 425
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-012-Q1-K1-A9

<400> 34119

cccacgcgtc cggacccacg cgtccgcgga cgcgtgggtt ttgattttag ccgccgccgc 60
 tggatcatctc acatccctcg agaagacgcc tgctcctcgc cgatcgatac gatggccgctc 120
 ttctccgacc tccacaccgc cgacggcctc aagtcctcgc aggtcacct cgccggcaaaa 180
 acctatgtgt ctggtgactc cattactaag gatgacatta aggtcttcgc cgcggtgccg 240
 tcgaagcctg gcgctgagtt tccaatgcc gcccgctggt acgagaccgt ctctgcggct 300
 gtacgctcaa gattccctgg taaggctggt ggtgtaaatc tgcttcgagg atcagcttct 360
 gcggcagctg ctcttcgcca tgaggctgan gatgatgatg accttgatct ttttgggtgat 420
 gaaac 425

<210> 34120
 <211> 409
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-012-Q1-K1-B1

<400> 34120

gaggcagtaa gcagcatggg cattggcagg agatggcagt tggcgtgcaa atggaccgag 60
 aggagaggcg aacatgggca aaaggaacgt ggcttcacgc gtatttactt gcatgaggag 120
 ggcgtacaag gcaacagggg ttctatattg tcattaccag gcggggatgt tcctcctggt 180
 ggtgagttca tccaggctgc agctcttggt agccaaccag ctctttactc taacgaactg 240
 ctggagcaac gtgctgcttg tcctgcgatg atgcattcat ctgaagcagg tactaaaggt 300
 ccaaaatggg cccaactatt tgagccttgg gtgaagcatg caacttggtg tggcatanga 360

atacagatcc tgcaacagtt tgctggcatc aacggcgttc tctactaca

409

<210> 34121

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-B10

<400> 34121

agggcagcaa gggccatggg atcgactgaa ctatgcatga tgctcatcat tgcggcgagt 60

gggatcagct cgggtgctacc tcgacggatc ggacgctgcg gcttcacagc acgcgttagt 120

cacatatcgg gcataatcatg ttgcaagaga aggctctgaa catcacagct cggcgacagg 180

ctacctgcc cgtacacgcc gactaccatg cgtatgcatg cctcactgcg aataacttca 240

ttgaaggagc ttagttcgca tattcacatg catgcactca tacacgtaat gacgataatt 300

aactgtacta cgtcggtcga cattgcttcg aactaaatgc gccgcgcgca gcttcagaga 360

agaggcatcg ggttacgtcg gcgataaaca cattcattaa ggaagagata cccaggatc 419

<210> 34122

<211> 194

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-B11

<400> 34122

tacacgatcg acgcatgcct acggtgagc gccgtattat ctatcaggca tactcggact 60

ttgagcgagg atactgacag tcatgatacc tcgacggatc tgacagaact ctggcctgac 120

acacatcatt cacattgctg cactatcaac ttctgacagc tggattggta cctaacatgg 180

cggtaacgat cgac 194

<210> 34123

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-B12

<400> 34123

ggcgagcgag gccttggacg cccacgacaa cttcggcatc gagatagcta tgcgggaggt 60
cagggacttg ttcgagggga tccagtccat gacctactgc tgcggtaact tcggtgatga 120
caaggggtgcc agggccattg tcaaagcctt cccacacata aaatgcactg tgctggcccc 180
tccaagatc attgccacca aaccggccga tggagcgaag ataaactatg tcgaaggtga 240
catgttcagt ttcattccac ctgctcaaac tgtcgtgcta aagcttgtgc tgcaccacct 300
gaccgatgag gagtgcgtca agctcctggc tcaatgccgg aaggcgattc ctccacggaa 360
ggacggcggg aaagttataa tcggtgatat tatgattgac cactctgggc ttatgc 416

<210> 34124

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-B2

<400> 34124

aaaaaaaaa aaaaaataaa caaaaaaat aaaatggcag ccgacgtact aaatagaccg 60
aggaagaaca cataaattgg gcagaatgaa agagtctcta gagttacttt acttgcatg 120
acgatggcct acattgtaca tacgggttct ctattgtaat taccctgcgg ggatatttat 180
aatgctggta agggaataca ctttgcagat ctggtgtgat aaccatgtct ttactatcac 240
gtactgctgg atcaacttgc tgctaatact gcgataatgc atccatctgt aaaaagtact 300
aaaagtccaa gagggaacgg cctatacgat cctcgggtga attatgctct gcaggttggt 360
atatgactac aaatgctaca gcttcacttt gtaattaaca acgttctcta ctatactcct 420
caaactc 427

<210> 34125

<211> 132

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-B3

<400> 34125

cccactcgtc cgcccacgcg tactcccact cgttcgaaaa aaacataaaa attaaacaag 60
tagatataac taaaatgatc aaaaataaaa atactttaca acaaattaaa cttcaattaa 120

aaatcttaca at

132

<210> 34126
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-B4

<400> 34126

cccacgcgtc cgccacgcg tccgaagata gtcgagaagc tcttcgagat ggaccctgag 60
tacgcagtgc ttgcgtttgc tgacatgatg aggaagaaga tcacgatgcc agcccatctc 120
atgtacgacg gtaaggacga caacctgttc gagcacttca gcgcggtggc gcagaggctg 180
ggcgtctaca ccgccaaaga ctacgccgac atcctcgagt tcctgggtcca gaggtggaaa 240
gtcgcggagc tcacagggct gtctggagaa gggagaaggg cgcaggactt tgtctgtacc 300
ttggcgccga ggatcaggcg gctggatgat agagctcaag cgagggcgaa gcaagcaccg 360
gttattcctt tcagttgggt ttatgaccgc aaggtgcagc tttaatcaag aacgctaggc 420
aatgtgggca tttactacgt atatcatttt cagt 454

<210> 34127
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-B5

<400> 34127

gaggaactca tcatgaatcc actaattggt ggtggtttcg gtattggtgg ttgaatgggc 60
ctaaggcttg gtttcaatgg gcccggaatt ggtcaaggga ctggtgcaag acaagctgga 120
aaaaggattg gcagaccacc cgaagcagaa agtaaaataa gaagtacttt attgcttaga 180
ctaactttta tagaaactct aacaatttat ggactcgggtg tggcactagc gcttttatat 240
gcgaaccctt ttgtgtaatc ct 262

<210> 34128
<211> 264
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-B9

<400> 34128

accactcat cctccactc gtcctaaaaa aaaaaaaaaa tttattaaaa aaaaaaaaaa 60
aaaaaaaaaa aagaaagaat taaaacaaaa gaaagaaaaa ccaaaaaaaaaa aaaaaataa 120
atattttata caaaaaaaa atgccccccc ttttaaatt cccaactttc ctacccttc 180
ttttcaactt catacttttt ctatactccc ccctaaatca atttcactcc cccctttttt 240
cccccatct aaacttttaa accc 264

<210> 34129

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-A11

<400> 34129

ggcattgctc agttttcagc cccaatttct ccaccatagt ctgactgaca aaagtagggg 60
aggtaccata atctaccagg atgagcatca cctgattctg aatcagagct cttactctca 120
tgcaacactc atggtctggt ccactgatgg catttaacga cagattgtgg gactcctctc 180
ggttctgggc ctctggtcc agatcataca acacctcatc cgacaacatc tgccccatat 240
ctccacagt taaactatgt aactgaggac ctgttctctt ggaacatttg gcctgatgtc 300
caggttcata cttctctcca caccctaaaac ataaccatt catcctccta aaatccctca 360
actgcctctt cttc 374

<210> 34130

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-C1

<400> 34130

cgaaagaagt cgcctaattc tttcgatcga attaggcgcc ttcttcgtcc cacgctccgg 60
ctgtatttgt aatctgaagc ttacaggaac atttgagtgg atcatggacg gattggtagg 120
cctcttgaaa gtccgggtgg tgaggggcat caaccttgcc taccgcgacg caagaggcag 180

cgatccgtat gtcgtcctac gacttggcaa gaagaaactt aagacgagcg tgaagaagag 240
atctgtgaac cccatctggc acgaggagct aactctgacc gtcacagatc ccagcctagc 300
tctgaagctg gaggtgttcg acaaggacac gttcagcagg gacgacccga tgggggacgc 360
ggagatcgac gtggcgccgc tgggtggaggc ggcgaacgcg agcccggagg cgagcctgag 420
gaacggcgcc atcatcctgt cgggtgc 446

<210> 34131
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-C10

<400> 34131

acgatggccc tagctctccc tcgcattcgc tttactcttg ctcggtcaga gacatccggt 60
ggcaccgtta gaccgtcctg acgatacctca gctatctagc tatggcccag actgttgagc 120
tcaacgatgc tacgatctgt aacgtcttta tgcgagctat caaacctgtc catgacgaga 180
tgagacgctt catcttctac atacgtatac atcatgaacc agatggctac cgtgaatgtc 240
attgatactc cttacgtcct actgttgact tgattcaaga ctgggttaaaa tacttccttc 300
tctaagggtg acgtcgatac aagtgaat 328

<210> 34132
<211> 388
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-011-Q1-K1-F4

<400> 34132

cgcacactgg catccacccg tcaccccacg cattcgatcc gaggtggtgc catacagagc 60
gagcgagaac ctgcgcacga cgaangccng cggcgaggtc gagactgagc ctaccggggc 120
acttgccgtg ctcaagggct tcaaggacct gcctcccggg atgccgtccg tgctcctcgt 180
gactgccatc acctggctct cgtgggtccc gttcattctc tacgacaccg actggatggg 240
ccgggagatc taccacggcg accccaaggg gagcaacgcc cagatctcgg cgttcaacga 300
acgtgtccga gtccgcgcgt tcgggctgct actcaactcg gttattctag gggttcagctc 360

gttcctgata gagcccatgt gccggaag

388

<210> 34133
<211> 297
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-011-Q1-K1-F5

<400> 34133

caaatacaata ctaaaccatc cattccactt tcctttctca nattcttcaa atacctacct 60
ccacctattc cttccaatct cctcttaact gccatcacct ctctctcttg attcccatc 120
atcctctacc acacctactt tattttctct ttagatctac cactactacc ccaattttac 180
caacgcccac atctcgtctt tcaactaaac tattccaatc cccactttca tacttctact 240
caactccctt attctatcat tcaactctct tccttattaa acccattttc ctcaaat 297

<210> 34134
<211> 240
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-011-Q1-K1-F6

<400> 34134

ggaagggtttt ggcatcctga ctacagttac tacatcaagc ggagttcctt cagcttggtc 60
atgtcacacg gacactactc tacactacag ggatatgtta gtatttcttt tttatatgta 120
ttttttttgt ggtgctcttg atttgaggat ctcggtataa ctgtaaccac acgcactggt 180
tacggttgct tctgcttcac aatcgctggc gacggttgga ttctttggat gttatagatc 240

<210> 34135
<211> 337
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-011-Q1-K1-F7

<400> 34135

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aancnnanttt ccttcggctc gtttatttta aacagacgct actctacact acanntatat 120
 nttanaatttt cttttttata tctattttttt ttcacctact cttttatttga cgatctnctt 180
 ataactgtaa ccacactcac tcattactttt ttctttctgct tcacaatcac tctcaacctt 240
 tccattctttt tcatcttata gatcatacaa aatatctact atttcttttta tatatactttt 300
 atccatacta tcaacattat aataaattttt ttccatt 337

<210> 34136
 <211> 362
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-011-Q1-K1-F9

<400> 34136
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 gggctaaata caggcgagag accgatagcg aacaagtacc gcgagggaaa gatgaaaagg 120
 actttgaaaa gagagtcaaa gagtgcttga aattgccggg agggaagcgg atgggggctg 180
 gcgacgcgca ccggccgtat gcggaacggc tcttgcgtgt ccgccgatcg gctcggggcg 240
 tggaccgttg tcgcccgcgc cggcggccaa agcccggggg ccctaggcgc ccccggcagc 300
 cgtcgtcggc gcggacggta tccgcgcgcc tctggcgcgc ccctcggggc gctgcgcgcgc 360
 aa 362

<210> 34137
 <211> 308
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-011-Q1-K1-G11

<400> 34137
 agagaagtaa taattcggat ttaattttac cttttaatgt acataaaaac ggctatgtta 60
 ttatttctaatt ggcgccagg caccctaaaa aacnnttacc acatccaant aaggcaccat 120
 gctcgcaaatt tacccaatcc ttacactggt atgtacttac aataaataac aataccgctc 180
 gcattagtgt ctggtaattg gaatgaatac aatctaaatc ccttaaccag gatccattat 240

<210> 34140
 <211> 237
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-011-Q1-K1-G6

 <400> 34140

 acgcgcgcac gcgtacgtcc acgcgttcga ttacgcgttc gaaaaaaaaa aaaaaaaaaa 60
 aggaaagggtt aaaaaaaaaag gaggtataaa aaaaaaaaaa aaaaaaaaaa aaaaaatgaa 120
 aaggaaaaaa tatatatatt gtgagagata aaaaaataa atatgtaaat ttatataaaa 180
 tgaaatgtgt gataaaaaata atatttttat taaataaatt tttttggttg atatttt 237

<210> 34141
 <211> 180
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-011-Q1-K1-G9

 <400> 34141

 ggcggtttcc tgttctgggc tgagccatcc acctgtttcc tacatttcgt tgtagcgttg 60
 gaatttaagg ggctaggaaa ttgaactaag agtttggtac tgtgaactaa gagtttggtg 120
 ctgtttcgtg ggagtgtgac ttcactccaa tatttgatat ctatctgtga cacttgctat 180

<210> 34142
 <211> 223
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-011-Q1-K1-H10

 <400> 34142

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 accttctgat cgtnacccat ggccactgcc gaagtccaaa ccccgatnaa ctgnatttac 120
 cgtcacagga tcaatcactt ccatccattg aacctattta atatctcccc aagaggctgt 180
 cccaactcc aaagcctatg aatcagcaca atcttgccaa caa 223

<210> 34143
 <211> 387
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-011-Q1-K1-H11

 <400> 34143

 gcgtccgagt tccctgactc gctggcacca gagcagtga aagctctcga gacagtactt 60
 ccaccaaggg cttcatccaa gctgacagac atggagatag atgaatgcga ggagacgact 120
 atgcatgatg tgaacaacat cgaggaagag atgcgcagga agcaagctca cgctgcccag 180
 gaggcgtacg aggaggacga cgagatgccg ggcggagccc agagagtga gtgcgcgcaa 240
 cagtaagcag actatcatca aggcaattgg gaggggtggg gcccttaaag cgtgggagtg 300
 atctctgggt ttgctgtcgc cgagctggga aataagaagc tgaatcgacc tcttaagcgg 360
 ggaatgtatc cttttttgct gcaacat 387

<210> 34144
 <211> 341
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-011-Q1-K1-H12

 <400> 34144

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 ggtgggtggg actggcgacg gacttctcgc aggggagccg agcggcgctg cagtgggcgg 120
 cgaccaacct gctccgcgcc ggtgaccacc tgctgtgtct gcacgtcatc aaggagcccc 180
 actacgagca gagcgaggcc atcctctggg aatccaccgg ctccccgttg attcctctct 240
 cggaattctc tgaccctatc atcgcaaga aatatggagc aaaacccgac atggaaacct 300
 tggacctcct gaacactaca gctacccaga aggaaattat g 341

<210> 34145
 <211> 384
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-011-Q1-K1-H3

<400> 34145

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agtcagtacc agcagcaaag ttgaatgttt ggtaatttgg tgggagaagc ctggagagta 120

cgtgttgtat gagcaacaac agcagaaacg acttttgctt caacaacacc aacaagatct 180

ctatacatca actgcattca ccgccacagg atcaatcact tccatccatg gaacctattc 240

aatagcttcc ctaggcagaa agacaaacac aaatgaatat gaaacaacag attctggcaa 300

acaattgtag cttggctgga ggcgggcatc agcggcgact tcccactcga ttcgctgtat 360

aataaatact atgagaggat actg 384

<210> 34146

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-011-Q1-K1-H4

<400> 34146

acgcgcacgc gtaaactccc tcgtccgcat tcaccgagcc gagcccggca catacactac 60

gggcggggcac gcacgcacca ggaccagcac cacaccacat gcatggtgga acctatcacg 120

ggcagctggc tcccgaccaa catacattac aaccacctat tgcttcaaca acaccaacga 180

gatccccctta cctcaactgc atttacgcca ccgccatcca tcaacctcct ccacgacaac 240

tactcgcaat gtctaggtaa ccacgttccg cgacatccac cctttgacac ccg 293

<210> 34147

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-011-Q1-K1-H5

<400> 34147

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tcgtgtagtc atcagccttc tgatcgtcac ccatggccac tgccgaggtc cagacccccga 180

ccgtcgtggc gaccgaggaa ggcgccgttg tggagacccc ggctccgccc gccgtcgtgc 240

ccgaggaggc tgcccccgcc gccgaggcca aggtggagga gccagctgcc ccggcggaga 300
ccgagccagc tgccgccgct gagccccagg cggccccgt ggcg 344

<210> 34148
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-011-Q1-K1-F10

<400> 34148

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cgcgcgctgg agtgggtggc ggcctccggc ggggacctt ggctgtcgcg ccatggcgac 120
ctgcgccgcy tcttcctggc cggcgacagc gccggcggca acatcgtcca caacgtcgcc 180
atgatggccg ccgcgtcggg gccgcgggtc gagggcgccg tcctcctgca cgccgggttc 240
gggggcaagg agcccgtcca cggcgaggcg ccggcgtctg tggcgctgat ggagaggctc 300
tggggcgtcg tgtgccccgg ggcgacggac ggcgtggacg acccgcggtt gaatccct 358

<210> 34149
<211> 198
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-011-Q1-K1-H6

<400> 34149

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tccggaaaga gagagagaan acaagcaatg gcgacagcag ggaaggtgat caagtgcaga 120
gccgccgtgg cgtgggaagc cggcaaaccg ctgtccatcg aggaagtgga agtagcgccg 180
ccgcaggcca tggaggtt 198

<210> 34150
<211> 396
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-011-Q1-K1-H9

<400> 34150

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aagccttgct ctggcttctt tacgggttat tacttctta gtagctcaac atatgtactc 120

tttacctgct tatgcattca tagcacaaga ctttactact caagctgctt tatataactca 180

tcaccaatac attgcagggt tcatcatgac aggggctttt gctcatggag ctattttttt 240

cattagggat tacaatccgg aacagaatga agataatgta ttggcaagaa tgtttagacca 300

taaggaagct atcatatctc atttaagttg ggctagctc ttcctaggat tccatacctt 360

gggcctttat gttcataacg acgttatgct tgcttt 396

<210> 34151

<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-A1

<400> 34151

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ttagtggaag aaaaggacaa tcaaatgcag aagatagaga aagaaattaa ggaactaaag 120

gtagggcgtg atttcgtagg ccgagttcct catggacatc gtcagcaacg aagagatggc 180

gctcatcgac accgctagga gaagaaactt atcagtgatg ggtctttata accaaacaat 240

tttatgagct taaaatgact ttcttagcct cttttatact tagcacatgc 290

<210> 34152

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-011-Q1-K1-B6

<400> 34152

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gaggcgagga acatcaagac gacgacgacg acgacggaga agaaggacga tgcggtggtg 120

cagccgcaga ccttcccgcg cttcgaccgc ctccggcgcg gcgcgtcccc ggcgtcgggt 180

ggcctccccg gcacctcgtc gggcggcagc agcattccag cgttcagcat gccgggcagc 240

ggcagcagcc tccccggcgg gtcgttcttg cccggcagca gggcagcat cggcagcatg 300
 cccctcttca gcggcggtc cccggccttc agcggcttcg gcggcatgcc cgggtcccc 360

<210> 34153
 <211> 184
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-011-Q1-K1-B7

<400> 34153

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 acataactac ccttcaggta ctacaacctt ccatactgtc aaccagaga tggcgtaaa 120
 aagagttctg aaaacttatg cttgcttctt attgttgatc aaataaataa ttcttctac 180
 cggt 184

<210> 34154
 <211> 365
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-011-Q1-K1-B8

<400> 34154

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 cggcaaggtc ccgcatectg ggcgngcn gccacgcgc cgcggcttcc gccctccgac 120
 accgcgccgg catgggcctc cccgtcggcc gccacatcgt ccccgacaag cccctccccg 180
 tgaacgacga gttggtatgg gataacggca cgcccttccc ggaaccctgc atcgaccgcc 240
 ttgccccgca catcggaag tacgaggcgt tggcgtggct gtgcggaggg ctagggttct 300
 tcgctgcctt cggatatggct gctggtgtga acgacaaggc ctccaatata ccatatactc 360
 ccaaa 365

<210> 34155
 <211> 363
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-011-Q1-K1-B9

<400> 34155

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ggaggacggg cggcgctggc ggtggcgggc gtgctctgcg cggcggcggc catggcgggc 120
gcgagcagg cgctgaacgt gcgggcgacg taccacctgt acaaccggc gcagaacggg 180
tgggacctga accgcgtgag cgcgtactgc gccacgtggg acgccgacaa gccgctgtcg 240
tgggcggcaga agcacggctg gacggccttc tgcgggcccc cggggcagaa gggccaggcc 300
gcctgcggca agtgcataag ggtgaagaac cgtgcgacgg gcgcgtccat cgtggcgagg 360
atc 363

<210> 34156

<211> 132

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-011-Q1-K1-C10

<400> 34156

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ctaccettac aatctctect acaagctact ctacattccc tccaatatca tcaaacacat 120
ccacatcttc ta 132

<210> 34157

<211> 389

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-011-Q1-K1-C11

<400> 34157

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ctgctctagc tctagcctct anccctagct agtagctagc cactcggctg tgtagtcac 120
agccttctga tcgtcaccca tggccactgc cgaggtccag accccgaccg tcgtggcgac 180
cgaggaagcg ccggtggtgg agaccccggc tccgcccgcc gtcgtgcccc aggaggctgc 240
ccccgccgcc gaggccaagg tggaggagcc agctgccccg gcggagaccg agccagctgc 300

<400> 34160
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 gatactacca tagcttttcc tgcccgaagt gctatgtggt gtttctgtgc gtttgggtgc 180
 aatgatagga cgggatgaga tgagaccctc aaattaggtt gtttggttct gggtaaaga 240
 ttgagacaag aatatactag tattgtttna aaaaaaaaaa aacaaannca aactaaaaaa 300
 aaactcaac 309

<210> 34161
 <211> 392
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3068-011-Q1-K1-C6

<400> 34161
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 tgtganagaa gaacttgacg gcatggccaa aaactatccc gatcgtttca agatctacta 120
 tgtcttgaat cagcctcctg aagtctggga cgggtggcgtc gggttcgtgt cgaaggaacg 180
 atccagactc attgcccagc gcctgccgcc gacattcagg tattgcatg tggacctcct 240
 ccatgaacaa agccatggcc gcgcacctgg acggccttgg ctacacgaag gagatgcagt 300
 ttcagttcta agcgttgcatt tctctctacc agtaccagaa taaacggcgg tggaacaaag 360
 ttctaagctc caaacagacg ctcttttcta cc 392

<210> 34162
 <211> 380
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-011-Q1-K1-C8

<400> 34162
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 gtccgcgccg cggccagaga agggtagatt ctgcatcgac gacatcgacc tggacgagaa 120
 gagcaacaag gtgaaggtga cggggccctt cgaccggac aagctcgccg acaagctgtg 180

<210> 34165
 <211> 334
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-011-Q1-K1-D5

 <400> 34165

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 aattaaaaaa aaaagaaggc ccacacccta caaaaatcaa aaaatatctt caccttaaat 120
 acccaaaaaa aaaatctgcc ctccccctcat aaaaaaaca atttaatttc cccttctttc 180
 caaaattaaa ctttttaaaa cccccccca aaacaaaata aactccccgc tttaaaaaac 240
 cttttcccca aaaaaaacct ctttttaaca aatttaaattc tttaacaaa aaatcccttt 300
 ttcacaattt cataaaaaaa aaaaaacccc ccca 334

<210> 34166
 <211> 367
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-011-Q1-K1-D7

 <400> 34166

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 ctagctccat ccaagattct gggcaccaag ctcaacttcg ccggctcctc ccgctacgcc 120
 accgcagcgc ccaccgcggg ggctcagaag atcgtctccc tcttcagcaa gaagcctgcc 180
 cagaagccca agccctctgc ggtgtcgtcc tcttctccag acatcagcga cgagctcgcc 240
 aagtggtagc gtcctgacag gaggatctac ctgccggatg ggctcttgga ccgctcggag 300
 gtaccggagt acctcaccgg agaggctcct ggagactatg gctacgacct ttttggcctg 360
 ggcaaga 367

<210> 34167
 <211> 374
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3068-011-Q1-K1-D8

<400> 34167

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gggcctgctg gaggtgctgc anaaggagggc cggcgggcggc aaggcgggcg tggcgcccga 120
ggaggtggtg gcgcggatgc ccgcgggcgcc cggcgacccc gccgcccggg cggccatggt 180
ggaccgcatg ctccgcctgc tcgcctccta cgacgtcgtc cggtgccaga tggaggaccg 240
ggacggccgg tacgagcgcc gctactccgc cgcgcccgtc tgcaagtggc tcacccccaa 300
cgaggacggc gtgtccatgg ccgccctcgc gtcctgaac caggacaagg tcctcatgga 360
gagctggtac tacc 374

<210> 34168

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-011-Q1-K1-E10

<400> 34168

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tataagaatg agggcggggtg ggttgatttc gactgcacca accctcgcaa acgaagcagg 120
attccttcct tcctgcgacg agcgttgccg aaccaacttc tgtaaatact ggctactgtg 180
agactggcta tgcttgttct tattacagac gtgctattcc gcgtctgaat tctgaaactg 240
ccatggaacc ctctataat cgtcgtgtga atcgtgtgga gggatgtaac tacgaggtag 300
taaaaaagcg gttacaggac aggaaatagt ggaaaggtag ataagcatag atagtatata 360
gtcaaaagag gtcatgtttg ctatgttgta gagatctctc acttttta 408

<210> 34169

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-011-Q1-K1-B5

<400> 34169

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tctggcgagt ccacgaactt cttcctgggc ctctcgtcc tgccagagcc gccgccacca 120
tcttctcccc agcgaggaac ctcttgtctt caaccgtctt gccaggctct tcacgtccca 180
ggctggaagt gatggtggcg ataccagaa gccctttatt gcttttgtct taggtggtcc 240
tgggagtggc aaaggaacac agtgcactaa gattgcttcg gattttggat ttgcccattc 300
gagcgctggt gatattctcc gacatgaaat agcatctggc agcgagaaag gggagttgat 360
cctagaaatc ataaaagaag ggaggattgt tccgtctg 398

<210> 34170
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-011-Q1-K1-E12

<400> 34170
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gagcgagacg gagcgaggct ttgccgctgc agagcagagc gacatgagct accggcttgg 120
aggcgcggcg gaccgcgagg agggggacga ggagctgttc gagacggcgc cgtccgtctc 180
cggcggcgag ggctcgtgcg accaggagcg ccgcgcgttc gtgccgccgc tgcggaggat 240
gaactcggac agcatctacg acatggcgtc catggtgtcg cagcagctcc cagccaagaa 300
agggtatcgc cgttactacg agggcaagtc gcagtcgttc gcgtgcatgt c 351

<210> 34171
<211> 116
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-011-Q1-K1-F1

<400> 34171
aagaaaaaaaa aaaaaaaaaa aattaaataa aaaaaaaaaa aaaaaaaaaa aaaggaagga 60
aaaaaaaaaa aaaaggaagg aaaaaaaaaa gggccgcccc ttttaaagaa ccaaac 116

<210> 34172
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-H3

<400> 34172

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 taatggcgca tgatgatccg gttgtttctg ctcatgggct gcacgagcac ctaggaatgc 120
 ctgatgttaa ggttttggat gcttcctggg acatgccggg agagaacagg gatccatgga 180
 aagaatatca ggtggcacac ataccgggtg cgctattctt cgacttagat ggcatagtgtg 240
 atcggacaac tgattttacca cacatgctgc catcagaaga ggcttttgca gcagcaattt 300
 ctgagctgga tataaaaaaac caggataaag ttattgtcta tgatggaaag ggattcttca 360
 gtgcgcctcg tgtttggggg atgttttagag cgtttgggca caagacagtc tgggtac 417

<210> 34173

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-010-Q1-K1-H4

<400> 34173

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 ctttttctct tccccaacgg tgcccgaggc ctgcgctcc cgccccctcc ggggaccgct 120
 gcggcgcttg acgcgacgca ggaggaggag gaggaccagg agtgggaggc tgcgctgcag 180
 aagtgaaga ccaagacctt cgcgctctcg gtgccccctc gggtcgtcgc gctccgcggc 240
 tccttcctc catcttggat taaggatttc gtcgaagctc aggggaagag actcaaattc 300
 agtcctgaac tccgtgctaa tcttgatggg atcctctctg agatgtcaca atgtatggac 360
 aagggtcaag atcagccgaa gtctgcaatg gcagctcatg ttgnttcctt tgcngactac 420
 tggctcggct atgcat 437

<210> 34174

<211> 265

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-H5

<400> 34174

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atgaaaaata ttaaaaaata gaaataataa aaaaaataaa aaaaaaacta aaaataaaat 120

aataataata ttttacataa tatacttata catacaagta aaacaacaat gatccatgta 180

tttattatta cgttcataca cttcatctat gtactcttct atatattaca tgtaataatt 240

catccgacaa ttaatttact acaca 265

<210> 34175

<211> 471

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-H6

<400> 34175

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aatcaaccc cgacagtga gtttgagagg cagctttgca aaacgagga tgagaggtac 120

cttcttgacc tgcaaagggc cagtggatca catcttctct ttctggactt gtgttccgcc 180

tttctaactc agctgagagt tctttgagcc tgacatgatt ggcttcccaa gcaactccttg 240

atgcacccag tggagtttca agttacattt gagatgtaca taatgaccat atataatcct 300

ccagtagatt atattttctg gagcatgtaa tgtagacgtt agaggcttgt cctggtttgc 360

caagatggtt gttacctaag gtcctaacaa gaggccgcag gcgagcccag tccaattaga 420

tgatgtgaaa aatttttggc ctttttttag tctttggaca tgttatcaaa t 471

<210> 34176

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-H7

<400> 34176

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gctgacgggc ccgatcccgc gcgacgacgc gcgacgag atcaacaccg tggacctctc 120

ccacaacaag ctgacgggag acccctccca cctgttcgcc gccggccggc ccatcgga 180

ggtggacctg tcgtggaact acctcgactt cgacctgagc cagctggtgt tcccgccgga 240
 gatgacgtac ctggacctgt cccacaacct catccggggc accgtgccgc tgtcgctgga 300
 gcggctgtcc acgctgcaga agctggacct gagctacaac cgctgtgctg gcccgctccc 360
 caagggacac ggcgtcatca agcacgggtg caagccgtac gcgcacaacc agtgccgcaa 420
 agggacccccg ctgcgcg 437

<210> 34177
 <211> 454
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-H9

<400> 34177

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 tgactccgaa gacagcttcg acggctggtg gtttcccag tacgagaagc atatgaaaca 180
 ggggaggagg aggatagggg ttcagagcgc tgtcggtggt gagttgggag cgtctgctgc 240
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 cattgttgca ccattacact atgttcaaga taaattgtca acaatggagt cgacagagat 360
 aatcaaggca gatgcaagtg agagggaatc tgatgaaatc caagtttcta gcgcaacaca 420
 tgataagata gctgaagcaa taactgacga ttca 454

<210> 34178
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-011-Q1-K1-A11

<400> 34178

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 agacatggga acacaatatg ctagattcta ttctaaaaac cttattgaac acattaaact 180
 acacatcaca cgtttcaaca tacctaagat tattcctact cttaatcaac ctcatcacta 240

acaagaactc tcctaactac tcatacacct tgacatacat gacaatgcat cgcacaatat 300
tatcaaccat attataaatg catctgaaca tacacaggat catgatcagt gcaatgaagt 360
ttccaatg 368

<210> 34179
<211> 288
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-011-Q1-K1-A2

<400> 34179

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gaaaaagcgg gtaaaagaag acgctcaaca acttgctcga gtttttgaaa ccattggcgc 120
tttcaaactc cctcgcaaag gtggaaaagg aaaacagatc tttgggagtg tcacggcaca 180
ggatgttggt gacataataa agtcacaact taatagggat gtcgacaaga agctggtgac 240
ggttcagaa atccgtgaaa tcggagagta tgttgcagag atcaagct 288

<210> 34180
<211> 407
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-011-Q1-K1-A3

<400> 34180

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gcttgcaagt tgctcttgcg gtagttcccc caactgtcac catgcagaac gaggagggta 120
agactgtgga cctctatggt ccaggaagt gctcggccac aaacaggatc atcactgcca 180
aggaccatgc ctctgtccag atcaacattg gccacttgga tgcgaatggc ctgtatgatg 240
gtcacttcac aacatttgct ctctctgggt ttgtccgtgc tcagggcgat gcagacagct 300
ccttgacag gctgtggcag aagaagaagg ctgatatcaa gcagtagatt ttacatctag 360
ttaccaaga attggacact gccttagcta tgttttgaat tcatgtc 407

<210> 34181
<211> 292

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<212>      DNA
<213>      Zea mays

<223>      Clone ID: LIB3068-011-Q1-K1-A4

<400>      34181

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ttacaattcc tattgctcat ggaactatTT ttttcattat cgattacaat cccgaacata      180
atgaaaataa tctaattgca acaatgttaa accataacga aactatcata tctcatttaa      240
gtttggctaa cctcttttcta atattccata ccttttacct ttatattcat aa              292

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<210>	34182	
<211>	386	
<212>	DNA	
<213>	Zea mays	
<223>	unsure at all n locations	
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tataacgagg	aatgtgaccg	ctttatgctt
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tgggatgaac	tgaaagctgc	cttcctgatg
tctcccttgt	ttcgatttga	ttgggttggtg
aagtccagaa	ctaccaaga	gttggctagg
cggtgtgata	cccttatccg	actggttgag
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<223>      Clone ID: LIB3068-011-Q1-K1-A7

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tcttgctgct gtaggtgctg ctggaacctc aagagcaacc tcaagagcgc cgccagcagg 240
ggcgccgact ggaactgcct ctagaactgc ctcaagaacg tcagcagggg caacagcggc 300
cacaacgcc a gcaacgcctc caagatccgc gtcaagatcc gctacaacat ccgctactcc 360
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<212> DNA
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<223> Clone ID: LIB3068-011-Q1-K1-B1

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tggtcgctcg agttggtgcg tgettctgtt gcttgtgctt tggcgccata tcgctgcgga 180
gcgctgtacg tagccatgtt tcgcccggga gggatcctca tctctctcgt tggcttgcta 240
cgtgttcctt gccgccatta cgaaacctta attgctcgct ttacacg 287

<210> 34185
<211> 109
<212> DNA
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<223> Clone ID: LIB3068-011-Q1-K1-B10

<400> 34185

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cgtaaaaaat aaaaaaaggc cggacacaaa cttcccaccc ctttaaaat 109

<210> 34186
<211> 409
<212> DNA
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<223> unsure at all n locations

<223> Clone ID: LIB3068-010-Q1-K1-H12

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tgatggctgg cgtctccact ccctgcagca aggacgcttt cctctgctcc ctgctcttcc 180

tcccatggcc ccccatgtag cagtaaccat ggaaaccctt ctgggacgcg cctcagcat 240

gctcaatgat atgctgcagc gagctccacc ttgatctatg ccaaccggc cgcanatcat 300

cgaaccttgg ggaacccttg ggaccgatgg tgaagagggtg aagcccatcc aacgtttgtt 360

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<210> 34187

<211> 235

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-011-Q1-K1-B11

<400> 34187

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gatttatcta cgacgtcgat actgattaca gattgttttg tattgtattt tacgacaatt 120

ggattttatt tgtttctaca tttgtatatt gtttgtgaga tgagagaaac ctcttcaagg 180

cgttgaacca aacgtacttt tccaacattt catatatatc ttaataatta cattt 235

<210> 34188

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-011-Q1-K1-B12

<400> 34188

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ggtggctggg gagcccatgg tgggtggcgt ttctccggca aggaccaac caaggttgac 120

cgcagcggag cctatgtcgc aaggcaggct gccaaagca tcgtcgccag cggccttgct 180

cgccgcgcca tcgtccaggt gtcttacgcc atcggcgtgc ccgagcctct ctccgtgttc 240

gtcgacacgt acggcaccgg cgcgatcccc gacaaggaga tcctcaagat tgtcaaggag 300

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gggcgcta 368

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<211> 305
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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ccatgacgtt aacttctcgt aaaatntntg nggccgnaaa atatgaagaa aacctagaga 180
ttacaggcac atacttggag gctcagaagc tggatgatga aatctgtgac attgtggcga 240
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atcac 305

<210> 34190
<211> 464
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 34190

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gtgccggtgg tggatcaaagt tctctgggtt atctctttgg aagcggtag ccccccaaac 180
cagcagtggc accagctgca agtgcctcac ctgttgagaa accatctgct gcaaagactg 240
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atggtcagaa cactggcaac ttccttacgg accgtccttc aaccaaggtc cagcgtgctc 360
ctggcggtgg ctcttccttg ggctacctgt tcgggtggaa ctgatgcccg tgctggtgag 420
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<210> 34191
 <211> 401
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-010-Q1-K1-F12
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 acaaaaggat catgactata atgctcaaaa aaaaagaaga accaaaaatc tttcacaaat 180
 ggctctgccc tacttagcaa acacttttat cgcattgtcc tcgtgcatta tcaggcaaac 240
 atcatgagga aactgcctta ccaccttctc atgtacaatc taaaatttca gaactgccta 300
 aactcaatat gacccattac acctcctcta cagatacatc ctcttttcat actgagctat 360
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<210> 34192
 <211> 215
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-010-Q1-K1-F2
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 aaaatacata aatataattt aacttaaaga aaaattaaac aaaatactat tttgaaaaca 180
 aatataaatc aattacttta tttcaattta caata 215

<210> 34193
 <211> 359
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-010-Q1-K1-F3
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ggaatatgtg agcacgtcca tgtcaatacc aaacatctgg ccttttctct ctctcttttt 120
 tacatatgtt tatgtggtct tagcaagtag ttgtgctcga ctttgcgta tgaggatgc 180
 cgtatgtgat tggatcacgg tgacctaaac ggccattccc acacttgtgt ttttacatga 240
 cttttgagtg ggtgatgcac ggataatatt gacatgttgc gtgcacgctc aggtgggtgct 300
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<210> 34194
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-F6

<400> 34194

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 acgtgcccta cgagatgggtg cagcaccct acgcgccggg cgctacgac aagaaggccc 180
 ccgccggcta cgtccgcaac gtcgtctccg accccacgt cgcgccgctc gccagggcct 240
 actccaccga ggtccgctac accgccgct tcagcgacga gaacccaac gcctgctccg 300
 tcatgtagac gtagaccac ccacacaccg accgacccat gctattagtt actagtagta 360
 tagtaggtgc ttgcttgaga gagttgctct tggaggaggt tttgctcttc ctgattctct 420
 ttttcttttt tttc 434

<210> 34195
 <211> 153
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-F7

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 tgaacgacac tgcacaccc atgtctgaca aca 153

<210> 34196
 <211> 464
 <212> DNA
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 <223> Clone ID: LIB3068-010-Q1-K1-G10

 <400> 34196

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 gagactaggg cctcagtgat gacagaaaaa gatagcagtc aagcttctgc tgcacatcaagt 120
 cagccctttg cgggaactgt ttttaagagca caaagtgtat ctcaggaagc ttcacctagc 180
 gtctttactt caaagcctct catagattct tcacttgtga aaaatacata tgttggttta 240
 agttcaggcg gtgcccataat tggacatcca aatttttgga accagcaacc aagtgcacgaa 300
 tgccttaaaa gaaaatctga atctctatct ggttcagaag caaggggtca ttcagctgca 360
 ttggtgcaac ctgctctagg aaatcataat gggagtggag gtgcacacaa gggccttcgg 420
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<210> 34197
 <211> 449
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-010-Q1-K1-G11

 <400> 34197

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 catccctttg cggcaactgt ttttaagagca caaagtgtat ctcacatgaagc tacacctagc 180
 gtctttactt cagagtctct catagattct tcacttgtga caaatacata tgttgcgcta 240
 agttcaagac agagcccata ttggacatcc aaattttggt aaccatcaac caagtgcacga 300
 atgccttaga cgaaaatctg aatctgtatc tggttcataa gcactgcgctc attcagatgc 360
 attggtgcaa cctgctctac gaaatcataa tgggagtggg agtgcacaca atggccttcg 420
 gatggctaac gttgtacagc tattcaaga 449

<210> 34198
 <211> 466

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-G12

<400> 34198

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 ggctaggac accgcacat gatggagctg tcccgtcggc acggccccct catgttcctc 240
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 ggctgcaagg gcaaggggct cggttcgcc ccctacggcg accggtggcg tcagatgaag 420
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 <213> Zea mays

<223> unsure at all n locations
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 ccaagcctcc cagcccaag ccgaccccg caacgtacac cccttcgcca aagcctncga 360
 caccgaagcc gaccccgccg acgtacacc cttctncaa gcctncgacg cccaagccga 420
 ccccgtcgac gtacac 436

<210> 34200
 <211> 338
 <212> DNA

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gaaaatgagt cctcctggcc cgcggcctgt gaaagatgca ta 462

<210> 34203
<211> 437
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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agcgtctccc cccaggacga tcagccggca tcctttgttg cgggtcaatat cccgcaatta 180
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caggaatacc tcagcacatg tctcgcgttc tgccaatgga tctcccagtc gttacgtang 420
ctcatcacgc atgtccc 437

<210> 34204
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-H1

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tcacccggcc catgttccag agcatgctga gccaccgcgg cgacagcggg tgccagggcg 180
ccttctacac ctacgacgcc ttcattgagg ccgccagcaa gttccccggc ttcggcacca 240
ccggcgacga gcagacgcgc aggggggagc tcgccgcctt cttcggccag acgtcccacg 300
aaaccaccgg tggatgggcg actgctccgg atggaccgtt tgcttgggga tactgccggg 360
tgaaggaaca gaaacagacg gaccaccct actatggacg aggaccata cagctaactc 420

ataagtacaa cta

433

<210> 34205
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-H10

<400> 34205

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cactgatacc atgtaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaataaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaata 240
aaattaaata tttaaataaa aaaaaaaaaa aaaaaaaagg gggggccctt ttaaaagaac 300
caagttttcc tccccgggga ttccaattta aacattttta ttaggggccc ccaaatt 357

<210> 34206
<211> 276
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-H11

<400> 34206

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ctgaagatga agactaaaaa aagtggagct aacatcgatc tggactcaca aatgaaagga 120
aaatgagttg atcgggaagac atgcaccaga caaaccataa ttgctgcctg aaaatgcgtt 180
agtagaaacc gataagctaa agcctggcga aggaactaga gataacaaat actgctactt 240
gatactagat acattggctt caaaatatga ctcacg 276

<210> 34207
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-C9

<400> 34207

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aacttcgccc gtggtcacta caccattggc aaggagattg ttgacctgtg ccttgatcgc 180
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ggcaagaagt ctaagcttgg tttcactgtg taccatccc cccaagtctc gacctcagt 360
gttgagccat acaacagtgt cctgtccacc cactcccttc tcgagcacac tgatgtggct 420
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<210> 34208
<211> 435
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-010-Q1-K1-D10
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tgagcagcag gcaccgccac cggcagtagc agcgccaccg ccatccatca accccgacga 180
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cgacgaccag cagtacatga cgatgagccg cgagttcacg gccatggtcg ccgacggggc 360
gaccatgcag accggcgggt acgacggcgc cgtcgaccag ctcaccagca tcggcgagga 420
cgagctggag gagac 435

<210> 34209
<211> 416
<212> DNA
<213> Zea mays
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 cggctcacct tctgggagct gtcgtgggac gtgatggagc ccatctgttt ctacgtcacg 240
 tccatgtact tcatggccgg ctacgccttc ttgctccgca ccaagaagga gccgtcgttc 300
 gaaggcttct tcgagagccg gttcgcggcc aagcagaagc gcgtgatgag cgcggcgcg 360
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<210> 34210
 <211> 229
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-D12

<400> 34210

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 gagcagcatg cgcgcgcacc cgcactgaca tccctaccga tacacaccaa ccccttcac 180
 caccacacct tctatgacct ggccaccaac ttgatcgacc ccatctctt 229

<210> 34211
 <211> 286
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-D2

<400> 34211

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 cgcagagctc tctgtcccg gctgtcttc tgccgtcccg gccgtttaat ttactagtgt 180
 gttcgtccta tatgttttagc agcagcaggt gtattgtgag ggtatgtaat ggtattgcaa 240
 ctatattggg tgtaaaacca taataaatgt gggcaaatat gcaagg 286

<210> 34212
 <211> 308

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-010-Q1-K1-D3

 <400> 34212

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 tgccggctct gcttctgccg tcctggacag ttaatttact catgtgtaat ctctatatgt 180
 caatcatcag catgactatt gagctgatat gtcatggtat tacaactata tagtcattaa 240
 aaccataatc aatgacccca actatgcaga gtaaattcac ttgacattc atagcactgt 300
 gcataaat 308

<210> 34213
 <211> 242
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-010-Q1-K1-D5

 <400> 34213

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 gctactaaca ttttgatcgt cctaagcaat attacttgta ttgttctacc ttttcacaaa 180
 ccaatcatac tatgttctac ctcatgattt cttcacctta atgtactatc aagtcatatc 240
 ct 242

<210> 34214
 <211> 297
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-010-Q1-K1-D6

 <400> 34214

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 gaaaaattaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaag aaaaaaat 120
 tataagttcc aagtttactt actctttctt gcaacgtcat atttttttta tagtggtacc 180

taaatttatt ttattgcccg atttttttaa acgtcctgat ttgaaaaacc ttggagtttc 240
 caaacttaat ggctttatag tacatattcg tttggtaaca tggcatatta tctaaaa 297

<210> 34215
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-D7

<400> 34215

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 atgaggcgag atttttcttc caacaactga tttcaggagt tagttattgc cactcaatgc 180
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 ggctaaagat atgtgatttt ggttactcca agtcctctgt gttgcactct caacccaaat 300
 caactgtcgg gacaccagct tacattgctc ctgaggtcct tgctagaaag gaatatgatg 360
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<210> 34216
 <211> 231
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-D8

<400> 34216

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 aactttaccg atcatcacgc aaaacacatt attccaacaa cagaaatcac aagttacaca 180
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<210> 34217
 <211> 396
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-E1

<400> 34217

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accacaagaa ggactaggag cacgccgccg ccggcgggta cggcgagtcc gccgagtaca 180
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atgaggagaa gcagcacaag cacaagcagc acctctgcga ggccggcgcc atcgacgccg 300
gcgccttcgc actcgtacgt agtccgtacg atccgaccc ccttgagtag tatatatata 360
cataaatgaa cgacgagaac gaattatata tatata 396

<210> 34218

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-E12

<400> 34218

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ggtgaagggc tcgacagact acatcgctat caacgagtac acatccagct acatgaaggg 180
gcagaagctg gtccaactag cgcccagtag ctactctgcc gattggcagg ttcaatatgt 240
gtttgcacgc aatgtcaaac cgattgcacc acaggcaa at tctaagtggc tctacatcgc 300
cccgcgggg atgtacgggt gcgtgaacta cctcaaggag aagtatgcga atccaacgat 360
ctacataacg gataacggaa tggaccatcc tggaaacttg acccgagacc agtacctgcg 420
cgacgccacc aaggtgcggc tctacagg 448

<210> 34219

<211> 279

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-E4

<400> 34219

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cacctcggta acctatcgca tccagccttc tatcaactat gctctcctgc acttaactga 120
ccgcacgctg ccttcgctgc cgttacttcg aacaaattac agtgctcaaa gcaatccatc 180
gctctacata cattaccatg ccataacacc ataggattcc gactctattg tggcggcctt 240
ctcaatcatc ttcacgatta ttagcaacag tcaccttca 279

<210> 34220
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-E5

<400> 34220
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cacaagaagg acgaggagca ggccgcgggc ggcggttacg gcgagtcgcg cgagtacacg 180
gaggccacgg tgacggaggt cgtgtccacg ggcgagaacg agtacgacga gtacaagaag 240
gaggagaagc agcacaagca caagcagcac ctcggcgagg ccggcgccat cgccgcccgc 300
gccttcgcac tcgtacgtag tccgtccgat ccgatcctcc ttgagtagta tatatatata 360
taaataaacg acgagaacga ataatatata tatattaatc gaacgaactg aatgacggtc 420
acctcgtgtg acgt 434

<210> 34221
<211> 270
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-E6

<400> 34221
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gaaaaataaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ataaaaaaaa 180
aaaaaaaaaa gccaaatata caaaaaaac aaaatttttc tataattaaa tacaactagt 240

acaatattca tgagaagcaa caaaataaaa

270

<210> 34222
<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-010-Q1-K1-E7

<400> 34222

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gcgcgtcgcc gtcaagcgct tgaaccgctc tgccctggccc gacccgcgcc agttcctgga 120
agaagctaga tcagttggcc tgctccgaag caaaagggtg gcaaatttgc ttggctgttg 180
ctgcgaaggt gatgaaaggt tgcttggtgc agaatacatg cccaatgata cgctcgcgaa 240
acatcttttc cactgggagt cacaatcaat gaaatggacc atgagattaa gggttgttct 300
ctgtcttgcct gaggcttttag aatattgcac caacaggggc cgtgctctct accatgatct 360
caatgcctat agagctctgt ttgatgatga ttgtaaccct agactntcct gttttggcct 420
catgaagaac agtcg 435

<210> 34223
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-C8

<400> 34223

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tccttttcct ggtcactatc attatcaggc cagttagcga taaaatgacc aatcttaccg 180
cacttgaagc atgagcgctt ccccttcgtc ttggtcttgc ttggctgccc cttgtgaccc 240
tttagcaccg tcttgaagcg tttgatgatg agagccatct cttcttcatt aagtccgacc 300
gcctcaattt gtgccacctt gctaggtagc gcctccttgc ttcttggtgc tttgagagca 360
aaagggtgtg gttcgttgat cgggtccattc aaggcgtcgt ccacgtacct tgcctccttg 420

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436

<210> 34224
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-010-Q1-K1-B2

<400> 34224

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tcatttacga tatcttgagg acgatgaagg actgcaacat ccagatattt tacggccggt 180
tcagatcaga caagaaaggg tcagccagca aaggttcacg aggttgccgt gaggtggatc 240
ttttcgtgaa gcaagtagac gggaagaagg tgactgatcc tgcgaaacag gacgcgctgc 300
ggtcacgcct gaggtccgag acgctccatc cgctcagggc catggtcgtc ggccgtggac 360
ccgacacgga gtcctcgtc gccaaaccgg tcgaggcctn cgggaaggga cggccgcgcy 420
tggtctacga cgccac 436

<210> 34225
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-B4

<400> 34225

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ggcgggtggac gcgctagcca actatgtcca ggtctacgtc atgctcccg cggatgtcat 120
cactgtcgac aacacgttcg agaaggagga cgagacgagg gcgcagctga agaagctgac 180
ggaggcgggc gccgacgggg tcatgatcga cgtctggtgg gggctggtgg aagggaagga 240
gccgggagtc tacgactgga gcgcctacag gcaggtgttc aagctggtgc aggaggccgg 300
gctgaagctg caggccatca tgtcgtgcc cagtgccggc ggcaacgtcg gcgacgtcgt 360
caacatcccg atcccgagc ggggtgcggga cgtcggcaaa agcaaccccg acatcttcta 420
caccaacccg agtgggctga c 441

<210> 34226
<211> 291
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-B5

<400> 34226

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atgctattac tctatccaca catcacctcg ctgtaccact ttcaccaact cctaacgtac 180
ctaataccac atataacgat aacatcaatg atatcatata cgaaaactcg tgtttacatg 240
atgctcacct tacattctaa gattataaag agctacttta tacctctcac a 291

<210> 34227
<211> 423
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-010-Q1-K1-B6

<400> 34227

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ggtgtcgggc gccacgcca tcccgcggtg ggagacgtcc ggcttcgtgg agtacatcga 120
gtcggggcac aagcaggggg acatgctgct ggtggtgccg cagggcgcg cgcgggtgcg 180
gctgggcaac gaggcgtcga tccggcagcg cctggccgtg gcgcgcggcg cctactacgc 240
catcacgttc agcgcggcg gcacgtgcgc gcaggcggag cggctgaacg tgtcgggtgag 300
ccccgagtgg ggcgtgctcc cgatgcagac catctacggc agcaacggct gggactcgta 360
cgcctggggc tttcaagcga agatggacgc ggtgacgctg ctcatncaca acccgggcgt 420
tga 423

<210> 34228
<211> 243
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-B7

<400> 34228

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atcacctcac tctcactact acttgctctt catgggttct tacatcacac actctcagcc 180
ccttttccaa gactcgtctt tcttgcagcg acttgccgta ccgcatctcg actactactg 240
cat 243

<210> 34229

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-010-Q1-K1-B8

<400> 34229

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ttctccgatt ggccgcccgc cgctcgcgcc tctcgtcaa caaaagccca ccggaagcga 120
gcgagcgagc caccctcccc gccgcgcgca ccgccccgt cccgccccca ccccgactcc 180
tcttgaccgc cggcgtgggg tgcccgggct ccacctcgg cgacgacacc ctccccgccg 240
cgcgcgccct caccgcctgc tccgtttgcg gnggtagccg gggctccggc ctcggcgggt 300
ttcaaagccc cctccctcac aacaggatcc anaatccgt cctagacttc ttctacctcc 360
ccttcagaa ctctctcttt tggcatcccg gacggtcgat ctcgaccccc ttcgacttcg 420
attcatctct tcttatcgat tg 442

<210> 34230

<211> 452

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-010-Q1-K1-B9

<400> 34230

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ctcacctcgc	cggcaaaacc	tatgtgtctg	gtgactccat	tactaaggat	gacattaagg	180
tcttcgccgc	ggtgccgtcg	aagcctggcg	ctgagtttcc	taatgccgcc	cgctggtacg	240
agaccgtctc	tgcggctgta	gcctcaagat	tccctggtaa	ggctgttggg	gtaaatctgc	300
ctgcgggatc	agctcctgcg	gcagctgctc	ctgcggatga	ggctgaggat	gatgatgacc	360
ttgatctttt	tggtgatgaa	actgaggagg	acaagaaggc	agctgatgag	cgtgccgncg	420
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<211>      430
<212>      DNA
<213>      Zea mays

<223>      Clone ID: LIB3068-010-Q1-K1-C1

<400>      34231
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 agaggtcaaa caaccattc tcttcctttc tggattacaa gacgaactag ttctctctcc 300
 acacatgaag atgctatatg acaaagcttc tgatcataat agcaattgca gatttgttga 360
 ttttcctagt ggtatgcata tgaatacctg gatgtctgga ggggaccgct actggaggac 420
 aatccaactg ttcttggatc aatatgctcc tggagtacaa aatcgtga 468

<210> 34233
 <211> 267
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-C12

<400> 34233
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 tcattccact actcttaatt actttctcat cacactcatt atttttttct aactaaccta 180
 tctcactaca ttctaaacct agttcacatt ccctatttgt cttataacaa tccaacacta 240
 tttcaattct tcttcacact cataata 267

<210> 34234
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-C3

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 ggaagaacaa tcaaatgaga aaccttttca gtcagtatag aatgacatct tttttctttc 180
 agttcagacc accaaggatc caccttcttc caatggtgtg gtgcaaaaac aacaacatgg 240
 tctacacagc agtgccctcta acgcaaggaa ggacaaaggc agacgccaca gagtatcatt 300
 gaggaaatca tgtctctgtt attaaatggg ttgcctgcac atctgctttg agctgatcac 360

cacgccttgt ggacacaggt aatttataac tgtgtctttc caaaaaagga tggttgcatg 420
aattctatgc 430

<210> 34235
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-C4

<400> 34235

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ggaagacctg acatctaaga tggctgacag cgagaaatca actagctaga atgagacaca 180
tgtgaagtgt atggctgaat catacaagtg acttgaatca cggaaaatcg aattagaaaa 240
tgagatagaa gcgctacagt ccagaataga tgctctaaca gctgaactct gtgatgaaag 300
acagagtcac caggaggact tagttaaata cagaga 336

<210> 34236
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-C5

<400> 34236

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gtcgttggtc tctctctctc cctcttcttc ctctctcgtc ggcaagacgc tgctgaggca 180
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ctttgatccc tggggcctcg gatctgaccc ggagagcctg cgggtggaacg tgcaggcgga 360
gctggtgcac tgccggtggg cgatgctcgg cgcggcgggt atcttcatcc cggagttcct 420
gaccaagatc ggcgt 435

<210> 34237

<211> 184
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-C6

<400> 34237

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 caacaagctg acaactccat aggtctctct ctcctactct tactccttac tcttctgcaa 180
 taca 184

<210> 34238
 <211> 295
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-C7

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 ggcggcggggt acaccccgac gccgacgccg gccagcccgga cccgaagcc cgagaagccc 180
 cacaccaagg ggccgaagcc ggacaagccg cccacggagc acacgccgtc caaggagcac 240
 gggcccaatc cgcagaagcc gtcccaggag cacacgccga cgccgaccac gtaca 295

<210> 34239
 <211> 467
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-B12

<400> 34239

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 cttcatcgtc atcaagaacc gcccctgcaa ggttgtggag gtttctacct caaagactgg 180
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cgaagatatt gttccttcgt cacacaactg tgatattccg catgtgaacc gtactgagta 300
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taaggatgat cttagactcc caactgatga gactcttgtg gccagatca aggaagggtt 420
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<211> 194
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-009-Q1-K1-F9

<400> 34240

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ttccgcttct gccagagaag cactgcgctt tgtttgatga agcttgtgga gccatggcgg 180
gcagtaatag tcct 194

<210> 34241
<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-009-Q1-K1-G10

<400> 34241

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aatcatattg aaccacgtcg agaacaagca aatgcactct gtcaagtact cctaccatct 180
catgctacag atcttctctg tatggatata cttcattacc ttctgccatc aatacacaat 240
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<210> 34242
<211> 441
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-009-Q1-K1-G11

<400> 34242

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ttcccccttc ttccaanata aaaatttttt tttaaggccc cctaaattca attccctccc 240
ccccctttta caccctctta acttaaaaaa cccttgcttt ccccaactta ttccctttga 300
aaaaaatccc ctttttccca atttgcttaa taacaaaaaa cccccacca atcccctttc 360
ccaacatttt cccccctaa atttcaaatt gaaccccccc ttaaccccc cattaacccc 420
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<210> 34243

<211> 116

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-009-Q1-K1-G12

<400> 34243

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<210> 34244

<211> 286

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 34244

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ctctaagatc acatgcataa cacttgtaa gcatgataac aaacatcctc atgctaaaat 180
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<210> 34245
 <211> 245
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-009-Q1-K1-G6

<400> 34245

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 cggctaaggc aaacccagcc gcgagcttcg gcagaccgtg atacaggcct gaccgcgttc 180
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 gacta 245

<210> 34246
 <211> 366
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-009-Q1-K1-G9

<400> 34246

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 tatcaaattg cttctcaagc tgcaacacaa tcctcctcag cctcaaattc aactcaatca 180
 attacaata agaacaatga cacctacttc tggtactatt tttgtaaate tctaattcctt 240
 ttcgctttca tttctgcatt tttttaatta tcaaaatcaa acattccttc cccacctgca 300
 ccatccacat ttaaacttat ctattcacia aaattcttct caaaatattc taacataccc 360
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<210> 34247
 <211> 394
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-009-Q1-K1-H1

<400> 34247

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tgccgaccgt ccgtccaccc cctctcctct tcccggcgcc ggcgacagcg ggagggactc 120
cctgggagga atggccgtgg tgagggctcc gctcggcgcg gtggcggtgg ccgctctcgt 180
cgtcgccatc ttcatgccgg ccgcccagc ggcgaggca ccggcgccc cgcccaccag 240
cgacggcaca tcaatcgacc tggggatcgc gtacatcctt atgctgggtg ccctgggtgct 300
cacctacctg atccaccgcg tggacgcgtc ctccccctac aagctctttt aatctctgct 360
ccttttcngt tggatcatgcg ggtatgggtg ctat 394

<210> 34248

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-009-Q1-K1-H11

<400> 34248

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tggggggggg ccttaacctg gccgtggaga tccaggccga cgccgggtac ggttacgggtg 120
gcgggtacac cccgacgccg acgcccgtca ccccgacccc gaagcccagag aagcccccca 180
ccaagggggc gaagccggac aagctcgcca aggagcaca gccgtccaag gagcacgggc 240
ccaagccgga gaagcctgcc aaggagcaca agtcgacgcc ggccacgttc acgcccagct 300
ccaaaccac gc 312

<210> 34249

<211> 334

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-009-Q1-K1-H4

<400> 34249

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acgggtgggg ccacgcctgg cctgacncgg gaagccggcc ggaaccatcc aactccgccg 120

cgctcgctgc gccttcgtct cgcgtgctca ccaagagaac aaaacgcgag cagccaagaa 180
 ttcaacgtcc acggtccgcc caccctccgt ttccgcttcc tccctccacg tcgtctcggt 240
 cttctctctc tgtaatcccc tgacacgggt ggctgcgacg gcgaatcaga tccctacccg 300
 tggcgttggt cgtgaattgg cgccgtcttc ccct 334

<210> 34250
 <211> 346
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-009-Q1-K1-H5

<400> 34250

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 ttctatcaaa aacagaacac ataataaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataaa 120
 cataaaaaaa ataaatattt tttattcttt ttaaaaaaat aaaattataa tttcatctta 180
 aaaaaaattt tatatttttt ttataatata aaatatattt taattttttt tcctaaaatt 240
 ttaaattttt tttattttca aaaaaattca attaaccaac tttatttttt taaaaataat 300
 aatctctaaa aaccatgttg taaacaaaat aaaaaatttt ttaaaa 346

<210> 34251
 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-A1

<400> 34251

tttggttttt ttttttaatc gtaactggcg tcttaattaa ctttgtgcag tggtaacaag 60
 gagcaaacgc agtgcagcgt ggtaaacaag tgcagtggta acaaacacaa acgcgccata 120
 ctctacttgc gttttggaca ccgtaggggt agggctacat tatttccaag agatcgatca 180
 tagacagagc acgacatggt ggggcggcgg ccgacagtcc ggcactaagg acgacgacat 240
 cgacgacgac ggaagccttg ggcattgttc tgtccagcat gatgcagcat gccccagatt 300
 cagaagaagg ggttgatcag atgttgacct tggcgacttc cgggagatgc accgggtagc 360

ggtcgatgc

369

<210> 34252
<211> 456
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-A11

<400> 34252

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gcctgtgcgt ctccatcgtc gccgcctctc ctccctcgga cactgactgac cttccactgg 120
cgccaacgaa gaaaacacat aggaagaagc tcaccgcaa acctcatcca gatccagtcg 180
ctgccctccg aaggccgcat acggaacgtc tcgtctcttc ctttgatcc ggcggtcaac 240
tccatcacc ccagcttcac ctcccttagt cccctccgt ccgctctcac ccaccgcttc 300
tatatcgcca cctctctcgt tgtagaagaa gactgagg atctggcttt ctggaatcac 360
atttcttgag aactatctgt tggagaacta aactaggctc ttggatcatat tatggatcag 420
caagctaaga ttgatgctga ttttcttgga ccaact 456

<210> 34253
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-010-Q1-K1-A6

<400> 34253

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gtcgcgcaac atcagagcac aagcgaggaa ccagctccag tcccgggaat ggagtgcgta 120
ttgggcgtgg ttggccgga cttcgcgctg gtggcgggccg acacttcgc cgtgcagagt 180
attctcgtcc acaagaccga cgaggacaag gtgatggtgc tcgactcgca aaagctgatg 240
ggcgcttcag gggagcctgg tgatcgggtg caatttacgg agtttatata gaagaacctc 300
cacctgtacc agttccggaa caccatcccg ctctcaaccg ccgccgncgc caacttcaca 360
cgcggcgaac tcgccacagc ctttcgcaag aatccatata tggatcaatat tattctgggt 420
ggctatgat 429

<210> 34254
 <211> 262
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-010-Q1-K1-A7

 <400> 34254

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 gaaaaaatta aaaaaagagg agaggctttt taacctaat ctatttttaa tactcgaatt 120
 tgatattaat atatttttta tatagacttc tctattttta ttactgtccc ttttttttta 180
 caatgttttc tcttacaaaa ttttggttat cccaatttaa ttcttcttga aacatatccc 240
 tttttaaaca tttaatatta ta 262

<210> 34255
 <211> 331
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-009-Q1-K1-F4

 <400> 34255

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 gcgacgtacg acgacgacga cncangcgcc acacatggca tcccagctct ccgccgccgt 120
 gccccgggtc caccggcctcc ggggctacgc cgcgccagg tccgcggtgg cggcgctgcc 180
 gtccgtgagg gtgggcagga agaggctcgtc gtcgcagggc atccgctgcg actacatcgg 240
 ctccgccacc aacctgatca tggtagacgac gacgacgctg atgctgttcg cggggcggtt 300
 cgggctggcg ccgtcggcga accgcaaggc g 331

<210> 34256
 <211> 260
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-010-Q1-K1-B1

 <400> 34256

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agctatagga gtgcccgggtg cggactgcga gtgacatggg ctaaataaag tgtgcgtcgt 120
ctgggtctggt ggtggtagtg gggcgcgggtg ccccatgtgt gccgctgcag cttgtgtctc 180
tgtgttgctt catgtttctt gtctatctac tctcatgtat ggcagtttgg gtacgggtat 240
atcaagcatg ttcagtcttc 260

<210> 34257
<211> 420
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-010-Q1-K1-B10

<400> 34257

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gctcctcgac gggcgatgcg atagccgaat tctgcgacgt ccacaccgcc gacagccgca 120
agaccctcga ggctcacctc atcggaacaa cctatgtgtc tgggtgactcc attactaatg 180
atgacattaa tgtcttcgcc gtggagccgt cgaagcctga cgctgagttt cctaagcccg 240
cccgtggtg cgagaccgac tctgcggtg cagcctcaag agtccttggt aaggctgntg 300
gtgtaaatct gcctgctgga tcagctcctg cggcatctgc tctgcggtat gaggctgacg 360
atgatgatga ccatgatctt tttggtgacg aaactgatga ggacacgaag gcattctgatg 420

<210> 34258
<211> 358
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-009-Q1-K1-C4

<400> 34258

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naaccctggt cagcatattc aatctgcttc tgctttaaca aaagatctct ctcccctaaa 120
atgaaatatc tgatttctat cacatagctt cagaattata ccgcgaatgt ggaacgccac 180
aacctgcac tgatgctcta gcaaaggggt ccaatgcatt ggaggagaaa tctccagaag 240

aagctatcaa aatgtatgat gaggcttggt cacttctata agaagatagg aaggaacaca 300
 tggccttttga cttgtaccgt gccgcagcag ctttttatat caagatggag aaatattc 358

<210> 34259
 <211> 284
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-009-Q1-K1-C5

<400> 34259

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 aaataatata tatgatacaa ataaaaccac ntgcccggcc cttctaaagt atccaatatt 120
 accaccccat tcttcccaca atatcacttt tttatacgt cacttaattt caataccctg 180
 gccttacctt tataaatact cttttaaaaa aaccctcttt taccccatct taatatactt 240
 aaaagacatc ctcttttcgc catttccaat aatttcaaaa actt 284

<210> 34260
 <211> 257
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-009-Q1-K1-C6

<400> 34260

caattttatt taataaaaat aacctttttc attttaaaca ccaccacat ggcccgcctt 60
 actattacta aggcccaatg cctttcttctt ggcctttccc ttgttcaccc ctacttctac 120
 tatatccatt ttctttcata aataaaaacc gctttttacc ttcaaaaaaa aaaaaaaaaat 180
 aaccaaata acaaaaaacc ttaattttta acacatccat ttacaatata tatattattac 240
 tcaaataaat attatcc 257

<210> 34261
 <211> 334
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-009-Q1-K1-C7

<400> 34261

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 gagtgggagc aggagcagcg gcagctgagc ctactagcac cgtggcacgg gagttttggt 120
 gtatgtggtg agcaggaatg gtgatccctt gttttggggg atgttgctgt gcaggtgtaa 180
 ttatcgtaa ctcagttgtc tatctatagg ccagttcag cttgagtttt atggttaact 240
 cggcgatcta tataggctca gtcacctgc aacgcacttc agttcagaaa ctcgatggt 300
 agcagatgtt tgtctgttg aagttgtttg tate 334

<210> 34262
 <211> 287
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-009-Q1-K1-C9

<400> 34262

cggattcccc gcccaatccg cgctctcttt tccgtcgttt aagtcatggc aggaatggca 60
 cctgagggtt ctcagttcga tgctaagccc tatgattcta agatgcagga gctgctgagc 120
 accggtgaga ctgaggagtt cttcacttca tatgatgaag tttttgagag ttttgatgat 180
 atgggcctcc aagagaatct tctgagaggc atttatgctt atggttttga gaagccatct 240
 gcaattcagc agagaggaat tgttcccttc tgcaagggtc ttgatgt 287

<210> 34263
 <211> 350
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-009-Q1-K1-D1

<400> 34263

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 cggctcccg gcccaatccgc gctctcctct ccgtcgcttc agtcatggca tgaatggcac 120
 ctgacggttc tcagttcgat gctaagcact atgattctaa gatgcaagag ctgctgagca 180
 ccggtgagac tgaagagttc ttcacttcat atgatgaagt ttttgagagt tttgatgata 240
 tgggcctcca agagaatctt ctgagacgca tttatgctta tggttttgag aagccatctg 300

caattcagca gagaggaatt gttcccttct gcaagggctct tgatgtcatt 350

<210> 34264

<211> 261

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-009-Q1-K1-D2

<400> 34264

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aagtttgctg atgacgcagc atcaggccag tgtgtgtccc ttatcccgtg atctgccgag 120

agttgctcct gctatcgtgt tatgtgtgtc tggtctgaag tattgtgtgg ttacaacac 180

ctgatgttgt aagagttgtt aattcccctg cattgctacc gggttattga gaataattat 240

ggctgtttac gttgttgctt c 261

<210> 34265

<211> 90

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-009-Q1-K1-D5

<400> 34265

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cgctgattca ttaaactgct ctctcagaag 90

<210> 34266

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-009-Q1-K1-D7

<400> 34266

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ggtgccatag ctggcccgcg tctcctgcgc atgctctctc tccctttccg gggttcccc 120

gtggcccgcg cgcaaattac cgggcctcag cccacagcac cggatgctta tgatgaaaga 180

cgggaggcgg ttgtcacccg agataatcga ctctactga ctgcactgga agaagcatat 240

ggaagtggcg atcgaccatt ccgccgagga caccgtgtgc acacgagtgc aggctcatgc 300
 tcgaggcgca ctctgtgac tagacctacg agtggcgtgc cttcttcaac gagggcaacg 360
 ac 362

<210> 34267
 <211> 263
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-009-Q1-K1-D8

<400> 34267

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 ccgactcccc tcccnatcct ctctctcctt ttctctgttt cactcatccc acaaatccca 120
 cctacacggt tctcacttca aagctcagca ctattattat aaaatacagg agctgcttat 180
 cacccgagat actcaacacc tactcacttc atatcatgaa acatacgaag gttttgatca 240
 tacattcctc caagacaatc ttc 263

<210> 34268
 <211> 187
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-009-Q1-K1-D9

<400> 34268

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 ccctttaaaa aaaccaactt ttcttcccct tccttcccc ataatactct ttttttatgg 120
 cccccaaaat ccaattcccc ccccccttt ttacaccccc ggaccttgaa aaaccccccc 180
 ttcccc 187

<210> 34269
 <211> 295
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-009-Q1-K1-E10

<400> 34269

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ggtcattgct gagttgaagg caccttgtgc ttcattgatt cagtttgatg agcccactct 180

tgtcctcgac cttgattctt acaaattggc tgcattctct gctgcatatg cacaacttga 240

atctgtactt tctggattga atgtgcttgt tgagacttac tttgctgatg ttcct 295

<210> 34270

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-009-Q1-K1-E2

<400> 34270

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gcccattctcc gccgcgtcgg ccgccgagtg ggcgttccgc cgctccaagt cggcgccctc 120

cctcggcgcc gccttcgccg cggggggcgg ctccctgagg cagtgggtggc agtggggcgt 180

cggctggctc ctgtccaaga agcccgggtt cgcgggcgac ctcgagatga acgaggagga 240

ggtcgccgcy ctggggccgc agagcagggg cacctgggcc cacatcctgt tcaagatgcy 300

gtcggcgctc cgccgcctcg tcgcgtccgc gactcgctc cccaccacgc acaagcagca 360

gtccctgccg tcgtcgt 377

<210> 34271

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-009-Q1-K1-E3

<400> 34271

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taagcgctac attattctga caaattcaga aatgtagttc tgtacagatc cgtattcttt 120

ccccggattc ctaagtactg tagaacggtg ctcgaaatcg ctgggtttcc acctcctgtc 180

gctattcatt cactgaaaga tctgctggct ggtggagatt tgtcagactg aagtatactg 240

gaagctcact ggcaacagcg ggaactcaag caagcagagt tcttgacgga cgttgtcatt 300
 tgttcttcag cctggtaagt ctaacgagct gaatactggt agttcccggtg aatcatctac 360
 acgtcaggtg cagaattctg 380

<210> 34272
 <211> 340
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3068-009-Q1-K1-E5
 <400> 34272

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 ccagctctac aaggaggtca ttgctgagtt gaaggcagct ggggcttcat ggattcagtt 180
 tgatgagccc actcttgtec tcgacctga ttctgacaaa ttggctgcat tctctgctgc 240
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<210> 34273
 <211> 314
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-009-Q1-K1-C12
 <400> 34273

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 tacctggacc gctcgtggt cggcgactac cagttcgacc cgttcgggtc cggaagcccc 180
 gtggagtacc tgcagttcca gttggactcg cttgacaaaa acctgtccaa taatgaggcc 240
 ggcggcatca tcggcaccgg gttcgagtcc tcctaagtca actccacccc gttgcagccc 300
 tacagcgaag tggt 314

<210> 34274

<211> 215
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-009-Q1-K1-E8

 <400> 34274

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 ctcaaaatct ctttattttac acctactgtc tctattcctt cactataata tctcctgaca 180
 cgcacacatt ccccagatta aacttttacta ccttc 215

<210> 34275
 <211> 249
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-009-Q1-K1-E9

 <400> 34275

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 tgtagaacgg tgctcgaaat ctctgtgttt ccacctcctg tcgctattca ttcactgaaa 180
 aatctgctgg ctctgtggaga tttgtcagac tgaagtatac tggaaactca ctggcaacaa 240
 cgggaactc 249

<210> 34276
 <211> 347
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-009-Q1-K1-F10

 <400> 34276

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 acatggcatc ccagctctcc gccgccgtgc cccggttcca cggcctccgg ggctacgccg 180

cgcccaggtc cgcggtggcg gcgctgccgt ccgtgagggg gggcaggaag aggtcgtcgt 240
 cgcagggcat ccgctgcgac tacatcggct ccgccaccaa cctgatcatg gtgacgacga 300
 cgacgctgat gctgttcgcg gggcggttcg ggctggcgcc gtctgcg 347

<210> 34277
 <211> 344
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-009-Q1-K1-F2
 <400> 34277

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 gacctcgtgc tgggtctccgc ggggtctggcg ctcatcgcct cggcctttgt tctctgcctc 180
 gtctggatgc tcttcgcgga ccgccccga agggaggagg tgtccgatct ggcgtcgggg 240
 tcgaggatcg cgccggtaga cagctctccg tcgtagaagc aagcaagcaa gcaagcggcg 300
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<210> 34278
 <211> 426
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-008-Q1-K1-H4
 <400> 34278

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 tcggcgaggg ccgcgtgacg atgcgcaaga cggcggcgaa ggccaagccg gcggcggcgt 180
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 cgccgagcta cctgacgggc gagttcccgg gcgactacgg ctgggacacc gcggggctgt 300
 cggcggaccc ggagacgttc gccagaacc gggagctgga agtgatccac tcccgtctgg 360
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 tcggcg 426

<210> 34279
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-H5

<400> 34279

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gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaataaaaa aaaaaaaaaa aataaaaaaa ataattaaac ataattattaa aaaaaatata 240
aaatattaaa aaaaaaatac aaaaaataac atatcaaac ataaacatat tattaaaaaa 300
aaaaaatcaa tatacaaaaa aaaaaaataa aatataaaaa aatatattaa aataaaataa 360
aaaatttata aaaaataaat aatataaaca attttatt 397

<210> 34280
<211> 447
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-008-Q1-K1-H7

<400> 34280

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gactgtcgag gctcaggaag gcgtcgctat cgagattgcg gaagccgtgg ttggtgcgct 120
gagaggggag ctgcgagcaa ccgctgtgaa tgcgcccatg gtcccagctg agatcctgtc 180
agagctggct ccatatgttt ctctggccga gaagctcggg aggctggcgg tgcagctcgt 240
ggccggcgag agcggcatca agggcgtgaa ggtggtgtac accacagcgc gtggccccga 300
cgacctggac actcggctcc tccgcgcgat ggtgaccaag ggcttgggtg agccggtgtc 360
cagcacgttc gtgaacctgg tgaacgcgga ctacacggtc aagcagcgcg gccttcgnct 420
cacggaggag cgcgtggcgc acgacag 447

<210> 34281

<211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-008-Q1-K1-H8

 <400> 34281

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 ggacgccgtc gggctcgtgg acatcgcgct cgggagcttc gtggtgtgga tcaggggtgg 120
 ggacgaggcg gccggcgtaa agcttctgga cgaggccaag ttcccggcct tgacggcgtg 180
 ggcggagcgc ttcttggcgg tggacgccgt gaaggaggtg atgccggacg ccggaaggct 240
 gttggagcac tacaaggggt ttctggctaa acggtctcca cctgctggtt actgaacgct 300
 gtaactgtaa gcctgtaaca gcaagctcag tggtcgtgta cttttccgtg cgттаacgtg 360
 tactagagtt caggaaaggc ttgtattctg tccagagtc agacgaataa acgaatgggt 420
 ttattatt 426

<210> 34282
 <211> 241
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-009-Q1-K1-A10

 <400> 34282

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 ttacgggtgc tcttctgcc gcttgaccct acctccagct gaaccaattc cagggttggc 120
 gggcctttaa ccataaaaga taactcttcc cgaagcccc tccggcgtct ccggacttcc 180
 taacatctcc gtctgccgtc acgtcccatc tctggaaatc ttaaccccat tcccttttct 240
 t 241

<210> 34283
 <211> 315
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-009-Q1-K1-A11

 <400> 34283

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 actgcctgac aacaatgggt ctctttatgg ggatctcaaa aggatctgtg agactgaact 120
 eggattggtc tcccagtgtt gtctgactaa acatgttttt aagatgagca agcagtacct 180
 tgcaaagtgt gactcaaaa taaatgttaa agttggggga aggaatactg tactttttaga 240
 tgctttgtca aagagaatcc cccttgtcag tgacagaccg accataatat ttgggtgctga 300
 tgttacccat ccaca 315

<210> 34284
 <211> 346
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-009-Q1-K1-A2

<400> 34284

cccactcttt ctaaaaaaaaa atttaatat aaaaaaaaa aaaaaaaaa aaggganagg 60
 gtttaaataa aaaaaaagtt ttaaaaaaaaa caaatataat attttaattt atttataaaa 120
 ttaaataaaa taaaatatat ttttaatat ttataatttc ttttttttta aaaaaatcta 180
 tatattttta ttttgactgc ttcttatatt taatcacttt ttttaatttc actttattta 240
 aatatttttt ctctttttta acaattctaa aaataaaaat tttctatttt ttttttaa 300
 tttttacttt tataaaatta tttattttat atcttttttt tttttt 346

<210> 34285
 <211> 387
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-009-Q1-K1-A3

<400> 34285

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 gtactgtcgg gcgtggccgc cagggccagc tggcactggc tgggtggcgta catcaacctc 120
 ggctgtact acctcgttgg catccccgtc gggtacatca tcgacttccc gctgcgcggc 180
 ggggtgcagg ggatgtgggg cggcatgctc acgggcgtcg gcctgcagac cctcatcctg 240
 gtcgccatca cgctgcgcac caactgggac aaggaggcca gcgaggcca ttccaggata 300

34286-34287

cagaaatggg gtggatcggc ggcggacaaa agttcacatg catgactagt ctgaatgacg 360
cgcgccacca tgagaataca atacaac 387

<210> 34286
<211> 404
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-009-Q1-K1-A8

<400> 34286

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ggttggagat ccagcaagac ctggacagaa ntggcacgtc ttctacgcca ctgagtaccc 120
agagcaacca atggttaacc ttgaaatgtg catgactggg ctggacaaga agaaagcttc 180
tgtctttttc aagactaatg ctgatgggaa cacaacatgt gccaaaggaaa tgacaaagct 240
ctctggcatc tctgaaatca tccccgagat ggagatctgc gattttgact ttgaaccctg 300
tggctactcc atgaatgcga tccatggctc tgcattctcc acaatccatg tgacgcccga 360
ggacggtttc agctatgcca gttatgaggt tatgggcttg gatg 404

<210> 34287
<211> 304
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-009-Q1-K1-A9

<400> 34287

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ttgcaccagg ggtatatgcc tcaaagttag gtctccggac caagagaaca gtaatctcgc 120
ccaacaagac aacgtggcac cggatgcagt gtctggcgat caatgattat ttcaggttgt 180
gcctcctgat ttaggggtggg gtgacagctg ccatgacaac taattatgat gttatacaca 240
gaagggcagg tggacctgta actagtccac atgaaccaca tctaacatgt taagctgact 300
ttca 304

<210> 34288
<211> 384
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-009-Q1-K1-B1

<400> 34288

acgcgtcncc tcaatcaa at cgagcgcgcg ccaatcaagt cttccagcct nccccnaatg 60
gcgcgatcaa acaagacagg aggggtgaaac tcgccttctg aagcgtctgc gactccttca 120
gcgccacctc catcaaggcc tacgtggccg agttcatcgc caccctcctc ttcattcttcg 180
ccggcgtcgg ttccgccatc gcctacaggc aactgacgaa tggcggcgcg ctggacccgg 240
cgggcctggt ggcgatcgcg atcacccacg cgctggcgct gttcgtgggc gtgtccatcg 300
cggcgaaatc ctcgggcgga cacctgaacc cggccgtgac cttcgggctg gccgtgggcg 360
ggcacatcac catcctgacc ggcg 384

<210> 34289
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-009-Q1-K1-B11

<400> 34289

gctggataga ctaatgtcag atgctgtttg gtataaaaag gtaaccatct gaatgaggat 60
atggcgcgaa ctatttggtc agcacgtacc tactatatga caagtcacaa ggtattatta 120
aaatacccca actaaaaact caaaatcaaa agaaaaaaga gaaactggta aaactacatt 180
tgtgaagagg catctcactg gagagtttga gaagaaatat gaaccaacca ttggtgtgga 240
aattcatccg ttggatttca ccactaactg aggtaagatc aagttctact gctgggatac 300
cgcatggcaa gagaagtttg gtggcctcaa ggatggatac tata 344

<210> 34290
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-009-Q1-K1-B2

<400> 34290

agaaaaaaga agcggagaaa acaattgttg gtgaatttag tagtgtcaag cgtgtcgggg 60

gaatcctctc catgggaagg cactctgac cagacagtgc tggctcttcc ttttctattc 120

ttctgggcaa ttcaccgcat cttgatggcc agtatgctgt atttgggagg gtcactaaag 180

gtgacgatac attgagtaag ctagagaggc ttccaacccg gagagaaggc atttttgtaa 240

tgccgatcga gcgtatcaac atcctatcaa cttactatta tgatattgat ctagagagct 300

gtgaagcaga aaaatctatt ctccggagga gactttctga atcagcatca gaagttgagc 360

gatggagaag aaaatgcttt gcttaatggt gg 392

<210> 34291

<211> 220

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-009-Q1-K1-B4

<400> 34291

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cgatcattct ttagctgcgc taactctagc ctctagccct agctagtagc tagccactcg 120

gtcgtgtagt catcagcctt ctgatcgtea cccatggcca ctgccgaggt ccagaccccg 180

accgtcttgg cgaaccgagga agcgccggtg gtggagaccc 220

<210> 34292

<211> 395

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-008-Q1-K1-H3

<400> 34292

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gccngagtgg gagcggctct accagtacga gattccagtg ttggccaagg tgctccccga 120

cgggaccgag gaagtacttc ccagattatc gccacgtcta agtgttgagc tcgtacaaaa 180

gaaaatttat tttgcgtttg atcagtaggg agaccgttct gggggaaacg gtaattttat 240

tttattaatt aatagctcca gctgtaagat tgccagttgt tatattttca tgattttgac 300
 acatgaatTTT caatttgctt gacttatgtt tgcaaggaat tacttttaggt ttgttcattg 360
 ctctgatgaa atataaatta tatggagtga catcc 395

<210> 34293
 <211> 164
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-009-Q1-K1-B5
 <400> 34293

aaaaaaaaa aaaacaaaaa aaaattataa aaaaacagca atcgattttc cggtttccga 60
 catacaatct tgcttgctgcg tccatgcaat ttatatatag tcctaaaatg atttcaaac 120
 caaactatct aaactcctct ttacagactg agaaactgct aaaa 164

<210> 34294
 <211> 371
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-009-Q1-K1-B6
 <400> 34294

cggacgcctg ggtaggggtt tgctgctctc cgaccccgag ctccgaaagc cgcagcggag 60
 gcgcggcccc cctcgctgtg gaccgaaatg gcgctgccga atcaggggac cgttgattac 120
 cccagcttca agctcgctcat cgctggcgat ggtggaactg gtaaaactac atttgtgaag 180
 aggcatctca ctggagagtt tgagaagaaa tatgaaccaa ccattggtgt ggaagtcat 240
 ccgttggttgc taccactaa ctgtggtaag atcaggttct actgctggga taccgcaggg 300
 caagagaagt ttggtggcct cagggatgga tactatatcc atggccagtg tgcgatcatc 360
 atgtttgatg t 371

<210> 34295
 <211> 191
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-009-Q1-K1-B8

<400> 34298

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ttaaaatagg gtggggcccat cctactccat ccaccaacc aaagtttacc acatcatatc 120

ctattttctca agaacatctt ccaacatcat ccacaccacc atcctttctc tcctctccat 180

catacataca tcctactcca tccttctacc ctaacctctc ttc 223

<210> 34299

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-E5

<400> 34299

gatatttggg gccatctcac tattggtggt gtctattatt cccctattca atgggtttttg 60

cttaggaata cctatgggtca gcatgctcct ttatgtctgg agccgagaga atccaaatgc 120

tcagataaat atatacggcc tcgtccaatt gaggtccttt tatcttccat gggctatgct 180

cttattggat gtgataattg ggtcatcatt aatgcctgga cttctgggta tcatggttgg 240

acatctctac tacttctttg cagtgttgca ccctcttgcc accggaaga actacctcaa 300

gactcctaaa tgggtacata agattgttgc tcgattcagg ataggcatgc aagcaaactc 360

accgtccgg ccaccagcca atggcaacag cgggtctggt gtgttttagag gaagaagcta 420

tagggtcaat caatagattc actgattcat 450

<210> 34300

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-E6

<400> 34300

cccacgcgtc cgaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

agaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aatttggatc cttttaaata ttcaaacttt 180

accttcaatt atattaaatt tattattttt ttataaaaat cccttaaatt gatttaatta 240

tctaattttt caaacttttta aaactttttta aaaaatttgc attttaccta ttttaatttt 300
 ttataaaaatt ttccccctttt ttcaattttt 330

<210> 34301
 <211> 453
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-E8

<400> 34301

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 gatagctagc atcatggcgt ccaaggcgct cctcgtggta gcgctcctgc tcgcccgcac 120
 ctctctcgcc gcctccgcta acgagcaagc ccaggcggcc aaagaggaga agaaggcgga 180
 ggtccaagac tggcacggcg gcggcggcta cccggggcac ggcgggcgcg gcagcggagg 240
 ctaccggggg cacggcggcg gcggcggcgg cggctaccg cactgccggt ggggctgctg 300
 caaccgcggg taccatggcg gctgccggtg ctgctcgac cctgacgaga taccagagcc 360
 catgtaccgt cctgagctcg tcgaggtcca caactaaata gtaatgagat gcgctgctac 420
 tatatatagc ggtacgtatg cccgatggga agc 453

<210> 34302
 <211> 377
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-F1

<400> 34302

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 gtggttgaga ccttctctca gtatcctcct ctgggtcggt ttgctgtccg tgacatgagg 120
 cagacggttg ctgttgaggt catcaagagc gtggagaaga aggaccaac tggtgccaag 180
 gtgaccaagg ctgcagtaaa gaagaaatga tgcgtcctct catgtgccct cgtttatttt 240
 gtacttgctgc ccgtatactt cgatctgtta aaatctattg gttgtgtgcc ctgtgtctgt 300
 tgtttgggta tctatactgt tattttgaga catgttgact tgcatgggtca tctggattgg 360
 gttcgcatth ctgagtc 377

<210> 34303
 <211> 298
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-008-Q1-K1-F10

 <400> 34303

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 gacgaaacgg tcgacatggc tcgcacgcaa tctgccgtag cggtcgccgt ggtggccgcg 120
 gtgctgctgc tggcagcggc ggcgacgacc tcggaggccg ccatcacctg cgggcaggtg 180
 agtccgcca tcgcgccctg cctctctac gcccgcgga cgggggtccg cccctccgcg 240
 tctgtgtga gcggcgtcag gaaccttaag agcgccgga gcaccggcgt cgacaggc 298

<210> 34304
 <211> 363
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-008-Q1-K1-F11

 <400> 34304

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 gcctgcgcca cgtcccgcc cgtcctcggc cgccccgcgc gcaccgcgcg gccccacctc 120
 gccgtttcct cctcctcccc cgcctcctcg atccgcttcc cccgcggcgc cgacggcggc 180
 gccagcagag cggccgtctc tctccgcgcc cccacgcctc cagtctgtga ccccaaaagc 240
 cttcttttca tgtttggaat ggagctggac tacagcgacg ccctcattgg tggcggcttc 300
 ttgttcaga atccaaacgc accaaaaacc tgtgggtgcg gcaaactttt cgcgactgga 360
 aag 363

<210> 34305
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-008-Q1-K1-F2

34305
34306
34307

<400> 34305
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gcaggcggct agctgttacg agctagctcc gcgcgcgcta ggccggcgta cgtacgtgct 120
gtgatcaact gtctagttct ctactcgacg cggacaccct gacccgcgcg cgcgccgtgg 180
ccatggtcgc cgcgcgcgcg gccatcctcc tggctctgcc cgtcgtcgcc gtcctcgctg 240
cgtcgtccgc ggccggcggac gggctcgttca taactgaggc cgacctcagc acccgcgccg 300
ccgccgncgt gcaggcgggc gtgaaggcgg ccagcggggg aggcgcccgc gagctggaca 360
cgatcgtggt ggcgcaggac gggacggggc actcgcgcac cgtgcagggc gcagtcgaca 420
t 421

<210> 34306
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-G11

<400> 34306
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gggccacatc atggtctgca agatcgccga gaagtacctg tcggagaagg cggcggcggc 180
ggtgaaggcg ttgctgccgg agtctgcagt cggagagctg tcggcggtgt gcccggtggc 240
ggaccatgtg cgctggcact accactgggc cagcccgtc cactacgcca acacccccca 300
agtctgcaac ttcaagtttt ctggggactg cca 333

<210> 34307
<211> 313
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-G12

<400> 34307
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aaggtaacat aactaaagat agaacaaaaa aaatctaaat aaactactac taaatacata 120

cccctattca cacactacgt catcaaccat ctattccaca ccaatgccaa ttaccttccc 180
 tttatcctat tattactcaa cgcttctaac tcacaatcca agctatctac cactgcctct 240
 gctcggacca cgaccacaac caccttaagg cgttcgcgct tcacgtgccc ttaccattac 300
 ctcattectt cct 313

<210> 34308
 <211> 193
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-G2

<400> 34308

aaaaaaaaata aaaaataaaaa aaaaaaaaca tacaatataa aaaataaaaa aattaaaaca 60
 agaaacaggc aaaaatataa aatatactat aaaaaaacct aaaattaatt tcacttaccg 120
 ggccttctct tctttttctc tcttatttac cctcgcggtt cccacttaa ttacctttct 180
 tctcatcccc ctt 193

<210> 34309
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-G4

<400> 34309

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 ctcggaacc cgagcctcat ccacgcgcag agcatccttg ccatctgggc ctgccaggtc 120
 gtgctcatgg gcgccgtcga gggctaccgc atcgccggcg gcccgctcgg cgaggtcgtc 180
 gacccgctct accccggcgg cagcttcgac ccgctcggcc tcgccgacga ccccgaggcc 240
 ttcgccgagc tcaagggtcaa ggagctcaag aacggccgcc tcgccatgtt ctccatgttc 300
 ggattcttcg tccaggccat cgtcaccggg aagggcccg cgcgagaacct cgctgaccac 360
 attgccgacc ccgtcaacaa caacgcttgg gcctacgcc ccaacttcgt ccccggaag 420
 tg 422

<210> 34310

<211> 401
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-008-Q1-K1-G8

<400> 34310

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catctccatc ttgggtcctct cccttgccctc ccagtttctca tgggtgtgcag aagcagctga 120
gggaagcgcc ggaattttcca cagagcctga tctccaggtg caagaacaag tgcacggcga 180
tatgaaaaac cgcctggaaa tgcagggtcg caaccggaag cttggccatg aggtgaccac 240
agtggagttg aagcatcaca ggaggattac cagtgggcac aagggtggca gcgcgggtgg 300
aggcgccggc gccggtgccg cgggcgccagg cacgggtggg cataacgtgg gcggcggggg 360
cgccgtgacg aggccgtaca gcttcaagaa cggncgcggc g 401

<210> 34311
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-G9

<400> 34311

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tcggtttcgg gtacaggtagc gcttttggtt aaggctcgttc gagcttttcc tgggagtatg 120
gcatgggtta catacttcag cgccgtagcg cctgggtatga gcctcgtgga gaagcaatgg 180
ctagtccacg gggctcatac ttcagcgctg cagcgcttgg tactcggacc tcggctcgag 240
gcattttctc taccctttct taccctgaaa aagcagggtc accttgtgtc cttaaacctta 300
taaccatctt tcggctaacc tagcctctc cgtccttccg taccaacaag gggtagtcca 360
ggaatattga cctgttggtc atcgactacg cttttcggcc tgatctaagg c 411

<210> 34312
<211> 264
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-H10

<400> 34312
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 tggaacaagc taattaaggc cgggccatcc ctcttctagc tcgtttcatt atccatggct 120
 gacgagaagc accaccacca ccacctgttc caccacatga aggacgatga gcatgccgcg 180
 acctgcgggt acggcgagta cgccgagtac actgaggcca cggagacgga ggtcatgttc 240
 actggcgaga acgactacga ctag 264

<210> 34313
 <211> 216
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-H11

<400> 34313
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 gacctgccac aacattatct catctatgaa cactcaaacc tctcttcaat aaatactgaa 120
 tcacaactcc ctacaattct atccttctta ccaattttcc ttcattcatt ctacttatca 180
 caccattttt ccattccata aattcctacc catttc 216

<210> 34314
 <211> 265
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-H12

<400> 34314
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 gcagatcggc catggagagc tgggctaccg gtgtggggac aagcgtagc tgcgccttct 120
 tcgcctccct cgagcgctgc tcctgcatca acctattcac cgacgactac gactacgacg 180
 aggaccacga ctaggccaaa gaccggtctc tcatgctcgc cgactacca cgccacgact 240
 acgccatcaa gcccgatcca gactc 265

<210> 34315
 <211> 452

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-008-Q1-K1-E1

 <400> 34315

 cttcttttgc tccctgcttt ctctagctag ctctcggctc atcagcgcgc tcacacgatg 60
 ggatcgacaa ctactaaagc agcaccacca tattaccagg cgggcggccg tatgcgatta 120
 cccggcaaat tagcaccocgg gttctgatca tcgtcagccc ttggattcat tccatcctcg 180
 ttccattggt acggtacggt ggccaagcta attaagaagc ccacaccag cgtcgtcgat 240
 cgtgcttgtyg cttccaatg ctatcttctt ccacatgtct ccttcaccgg cgccaagcag 300
 cggctgcagc ctagcagtac tagtaggcgg cagcagtagt gcagggtcgt ccaacaagtt 360
 caggcacgcc atcctcagga acctgctcct acggctcagc aacaaggacg gcgctgcgtc 420
 gccgtcgtgg tccagtgccca tgagcctgcg cg 452

<210> 34316
 <211> 234
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-008-Q1-K1-C1

 <400> 34316

 cggacgcgtg ggcttttcgg agatctcgcc gcctccgccg tcgacttccg tcgccccgt 60
 gatcccgct cggggttac ccgatggcac ggctgcactg gcttgaggct gtcctgccgc 120
 tggggatcat cggcggcatg ctctgcatca tgggcaacgc ccagtatttc atccacaagg 180
 ccgcgcacgg caggccgaag cacatcgga acgatatgtg ggacgtcgcc atgg 234

<210> 34317
 <211> 387
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-008-Q1-K1-C11

 <400> 34317

 acgctccgtg cggcgacgac ggactgggca ctcttcatcg cctcctttt cctgcgctag 60
 gtacggctga ccaaccgctg ggtcgcttcg tcacctcttc tctgcggca acgatcacc 120

accatcttga tgctgattct ttggttgaca atttcaacat tactaccttt tatgaccctg 180
aggccaagaa ttattaatcc tcccaggctc aaaggcattc caaaatctat catccattat 240
tcaataatgc catcctcaac ctatcgacta gaacatgaat cagaacttgg actcaatgga 300
cactgtgacg ggcattgatat tcaacaacat atcctcttta aaatccccct acattcaact 360
tcatgaagcc ctcaccccat atgaccc 387

<210> 34318
<211> 275
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-C12

<400> 34318

cgcaagggtg cttgtatcgg tgcattggcat ccggctaggg tctcgtatac cgttgccgggt 60
gcgggtcaga atgggtaccg gcaccgcact gagatgaaca agaaggctta caagatcggc 120
aaggctggac aagagaccca cgatgcctcc acagagtttg acaggaccga gaaggacatc 180
actcccatgg gtggcttccc ccactatggg atcgtgaagg gtgactacct gatgatcaag 240
ggatgctgtg tgggtccaaa gaagaggggtg gtgac 275

<210> 34319
<211> 457
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-008-Q1-K1-C4

<400> 34319

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ttccaacggc gagggggcga tcaacatagc ctctgctgct gctctcagca ttgatgacat 120
tgtgctgcct cagtacaggg aacctgggtg tcttctatgg cgtggcttca ctctgcagga 180
gtttgcaaac cagtgctttg ggaacaagct ggactatggg aaaggaggc agatgccccat 240
tcactatggg tcgaaccgtc tgaactatct cacagtctcg tcacctatcg caacacagct 300
ccctcatgct gttggagctg cctactctct gaagatggac aagaaggacg cgtgtgccat 360

cacatacttt ggggacggtg ggacaagtga aggagacttc catgcagcgc tcaacttcgc 420
 ggggtgctatg gaggcgccgg tgatcttctt ctgccgc 457

<210> 34320
 <211> 284
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-C5

<400> 34320

gcttctacga gaggatatag agaggaagaa cagctcgtcc gagaccatga agagcagccg 60
 acacctggtg ctgatcctgt gcctccaggc cgctctggtc atgggcgtct tcgccgcttt 120
 ggctaaagaa aatgccctgg ttgagagcaa ggccatcgac atcaaccggg ggcagctcaa 180
 gtgctgcacc aactgcaact tctccttctc ggggctctac acctgcgacg acgtcaaaaa 240
 ggactgcgac cccgtctgca agaagtgcgt cgtcgccgtg cacg 284

<210> 34321
 <211> 455
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-C6

<400> 34321

aatccccgtg ctgagagctg agtgcctgct tggttgctcc gtactggact cgaggcctcg 60
 tcgcagcaga agcatcccggt cccctccgct tctccttgct ctgctctggt aacacacaga 120
 caaaaaaaaa aaatagcatc atgtcggagg tgaaggactc caatgtgcct gctgcacttg 180
 atggaaatcc tcaacctatg gaccaaactg aagacaattc tatgccctca gcacagcaac 240
 aggaagaagc aatcaagaag aagtttgagg gactaatgcc caaaaagccc ccactcatct 300
 caaaggatca tgagcggggc tactttgatt ctgctgactg ggctctaggg aagcaagggtg 360
 ttgccaaacc caaaggaccg ctggaggcac ttaggcccaa gcttcagcca acacgccaac 420
 aacagcaaca acgtgcaagg cgcctatctt acact 455

<210> 34322
 <211> 417
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-008-Q1-K1-C7

<400> 34322

gttcaccttc cgggtgcagc ccaaccaccc caacctgcag gaagacgagt agctacagcg 60
tgctggatag tggtctgcat gccgctctga actgaagctg caggaagacg agtagctaca 120
gcctgctgga tagtggtctg catgccgctc tgaactggag ctcttcacct gcagcttctt 180
tctcgcgttt catcattcag cgtttagctgg tgatgataat gttggggcga aggcgaagac 240
gctatcattc gctcgatgcc ttcgtgcct tcgtcgtctc gcttcaccaa cgacgcaaaa 300
gacgccggtc caatgaggac ttcgcgactg gacttcgtgg gcgtccttcg cctttctcca 360
ttgcgagacy aaggcaagac tccgacgatg tctgctagcc tcacgtnttc atcgggt 417

<210> 34323

<211> 401

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-008-Q1-K1-C9

<400> 34323

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cccatcgccg tctctgattc tgttcagtaa ggcttcgtgc cttagtgaat tctctcgcga 120
tctgtagnat gttagtgttg ttgagtccaa aaaaaanaa aaaangggcc ggcacgcttc 180
ttagaaagga tcctaagnca ttacgtnttc gcgtgccatg cngactgnnt catagctttc 240
ttctaattag tnggtcacct taannattca tattcacttg gcannngtcg ttttaccac 300
ngnntcgtga cctgnnggaa aactntnctg gcgttaccac aaaacttaat cgccatttgc 360
agcacaaaat cccctatttc gccaaagcttg gcnnngtaat a 401

<210> 34324

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-008-Q1-K1-D1

<400> 34324

cccacgcgtc cgggacgcag gggggcattt ccgggaacct cgccgcgggc ggggctggag 60

agccgcggag cttttgattt aaccggccgg ttggtcagcc agccagccag ccagccactc 120

agtactgcac actgccatcg ctctcctacg gtactgctgc ctaccgcgcg tctcgtccct 180

tcgctgccgc tctatctatc tcggccggag ccatgggagg cggtggcgcg gcgctgctgc 240

tgctggatgat gtgggcgggc gtggcgtcgg cggccgtgta cgaggtgggc ggcacgattg 300

ggtggaccgt catgggcaac cccgactacg ccgntgggc cagctccaag cagatcgta 360

tcggcgacac tgttgtgttc acgtataaca agcagttcca caacgtgctg gcggtgagca 420

aggcggacta caagaact 438

<210> 34325

<211> 176

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-D10

<400> 34325

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ccgcatcgcc gccgcacagt gactgtccca gcgttgtttt gtgtataatg atcgtatgct 120

tgcttgtttt ccgaacaaat caaatgctat caaatatagt gatctgagtg atgagc 176

<210> 34326

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-D11

<400> 34326

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agattgctgt gatggctggc ttaacagcgg gtatcacctg caaggcgtga ccgcaaactc 120

ggaaagcatg ggtgtcgggtg tcgctacgac ggtaacgacg cacgcggccg,ggcagcaacc 180

ggcgatgtgg tcattttgcg ttctcgacat ggggacgacg acgggtgttc cggccgcacc 240

gaatctcagt gtgccgacgc aaacgaactc gattccttcg agcgggtggac agcaattcgc 300

gacgaacctg atcgttcacg cgccgtacat tgacgaggcc agtgtggcga ctgcactgac 360
gcttggggaa gtcccgaatc cggcaccgga tctgggggcg cctggggcgac ccatcatggt 420

<210> 34327
<211> 55
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-D12

<400> 34327

ctagttctag atcgcgggcg gccgctcgcg atcggacgcg tgggcggacc cgtga 55

<210> 34328
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-D2

<400> 34328

cccacgcgtc cgcccacgcg tccgcgaggg acaccctgac aagctctgtg accaggtctg 60
agatgccgtt cttgacgctt gccttgctga ggaccctgac agcaagggtt cttgtgagac 120
ctgcaccaag accaacaatgg tcatggtctt tggtgagatc accaccaagg ccaatgttga 180
ctacgagaag attgtcaggg agacctgccg caacattggt tttgtgtcaa acgatgttgg 240
gcttgacgcc gaccactgca aggtgctcgt gaacattgag cagcagtccc ctgatattgc 300
tcaggggtgtg catggccact tcaccaagcg ccccgaggag attggagctg gtgaccaggg 360
acacatgttc gggatatgca ccgatgagac ccctgagttg atgcccc 407

<210> 34329
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-D4

<400> 34329

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
agaaaaaaga aaaaaaaaaa aaaaaaaaaa aaaaaaacaa aaaaaaaaaa aacaaaaaaa 120

aaaggccgcc ccttttaaaa aacccaactt aactccccct tcattgcaac tcaaaacctt 180
 ttttaagggc tccccaaaat caaattactt gccctctttt taaaaactcc taacctggaa 240
 aaacctggc tttcccaa ataaaacctt tcaaaaaaat ccccttttcc caacatggcg 300
 aaaacccaaa aagccccctcc ccaatccccct ttccaaaaac ttccccaccc taaatggcaa 360
 ttggaacccc c 371

<210> 34330
 <211> 453
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-008-Q1-K1-D5

<400> 34330

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 ccgcctcctc cgccttgcgc ccacccctcg cctcgcgcg ccttcgctg caaagggtccg 120
 tgcgtctcgg ccgcaggaac cggagcttcc gtcggaggac gacaacgact tcgccggcgg 180
 cgagctcacc gccccaccg agggcatcgg caagccgctc gccgaggtgc tcaaagagct 240
 cgggaagagg gttccggact cccttgtaaa gaccgcgctc gagaataatg gcttcgctat 300
 caagtacatc ccatggcaca ttgtgaacaa aattctcaac atacatgctc cagagtggctc 360
 gggtgaggta cgcagcattg gttactcatt tgacgggaaa acagtatctg ttgtctatcg 420
 agtgactctt catgggaatg atgcanagat cta 453

<210> 34331
 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-D6

<400> 34331

gcaaggtggt cgaccatcag ctgtgccaa gcccacggt accatgtaca gcaggatagg 60
 ggtgtttaca catattgaca ggacacaact ctccagttta ggctttgccaaaacccata 120
 tagaataacg agcataactca aacgaccacc actccaagca caccatcatc gccaacctga 180

cggagagctt ctcgtactcc cacataccat ataaagagaa tgcctcggag gagaaccctg 240
 tccatggtac cattatgctc ttgcacatca tctggggata cgcatactaa catctaggaa 300
 tatgtggtga catacattgt ccaaagtctt ccaattcttg atgattactt ttttatcgac 360
 tgacttaac 369

<210> 34332
 <211> 317
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-B8

<400> 34332

actcatacac ccactcatcc tattcgacag acttcgcttt ttcctcaagc atattcaaac 60
 aaggctcagg cgcatttcta aatcaaccac ttccaaacta ctcccacaca tatccaattt 120
 catatccata ctaaataattc acatttaatc tacttacttg attattatat taaaatatat 180
 aatcctgcta caacctaact tttcttactc tactcacata actttcaaaa catactcata 240
 catttcaata attcccaact acaataatct ttatacactt tatccactat ttatatccat 300
 attactcaaa ttttatc 317

<210> 34333
 <211> 452
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-D8

<400> 34333

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 cgaccgcgag cgggcgcgag aagacggact ggttcaacgc gcccttcgtc gcctectacc 120
 gcggcttcca cgtcgacggc tgcgaggcct ccgcggaggc gcgcttctgc gccaccagc 180
 gcgcgcgctg gtgggaccag ccggagttca gggacctcga cgccgcgcag taccgcgcgc 240
 tggccgacgt caggcgccgc tacaccatct acaactactg caccgatcgc gaccgctacg 300
 gcgcgcgctg gccgcccagag tgcgcccgcg accgcgacgt ctgatgatga tgcgttgggc 360
 cggcaagctg cttgatcgag agcagcctgt aatgtatgta tggatatgta ttggtgtgtg 420

tcagggttcgt cgtcgtgggt ctgcagagac ac

452

<210> 34334
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-H9

<400> 34334

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aggggaaatc tgtggagtca gcacagaaag atttcttgga ggcaaagcac cttgccgcac 120
aacttgttct tgatatcctt gattctattg taccocatga gaaccgcata ttggtcaagc 180
ttcttgagac atttgaaatt gagttgagag acatggcccg tgctttgtat gattcatagt 240
tggaacgatg tgatctaatt gaaagcacgtg aacatctcag acagcaagtt aagcgctcta 300
tggaatcaga atccaatgca cttgctgtga ctctaataac acatttttcc atccaatgct 360
gtgatgagtc cttcatcata taattgatta aaaacaatca tttagagatt gcagagcaat 420
tgtgctatct tcatgggcaa ggaaat 446

<210> 34335
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-A1

<400> 34335

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ggcggcgccg agtccaaggt cttctacctc aagatgaagg gtgactacca caggtaacct 120
gctgagttca agtctggtgc agagaggaag gatgctgcgg agagcaccat gaatgcctac 180
aaagctgctc aggacattgc tcttgagat ctggctccaa cccaccccat caggcttggc 240
cttgctctca acttctcagt gttctactac gagatcctga actcccctga tcgcgcctgc 300
aaccttgcaa aacaggcctt cgatgaggcg atctctgagc tagacagcct gggagaggag 360
tctacaagg acagcactct gatcatgcag cttctgcgcg acaacttgac cctatggact 420
tccgacacca acgaggatgg cggcgacgag atc 453

<210> 34336
<211> 467
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-008-Q1-K1-A12

<400> 34336

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gccggggcag cacgagcggg aaggccggtg gtggtgggag gacgccaagg ccaaggagtg 120
cggcctccac aagggcaaca tcgacaagga cggccaggcg gcggcggctg cggcggcccc 180
caggactgcc aacggcaacg gctcggcggg cgccccggac atcttcgaga gccccgccgt 240
cgtgtccctc acccgcgccg gggtcgagaa cctgctgcgc ctggagagcc tcgccgagcc 300
gtggctcgtg gtgctgtacg cgccctggtg cccgttctgc caggccatgg aggccctcta 360
cgtggagctg gccgagaggc tggcgngtc cggcggcgtg aatgtggccc ggttccgcgc 420
cgacggcgag cagaagccgt tcgcgcaggc cgagctgcaa ctgcaga 467

<210> 34337
<211> 455
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-008-Q1-K1-A2

<400> 34337

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gacaatttta gcgagaacga gcgagcgagc gagggagagg atgggttcca caggaccggc 120
gagcgggttc gcggcgccgg agcgggacat cgacgatctg ccgcggaacg acgccaacta 180
cacggcgctc acgcgcgtct ggttcctcga gcgcgcggcg ctggcgcatc cgggcagggc 240
ctccgtcgtg cacggccccg tgcgctacac ctgggctgac acctatcgcc gctgccgccg 300
cctcgcatcc gccctcgcgc gcctatccgt cggccacgga agcacggttg ctgtgatagc 360
tcctaagtgc ccggctgtct atgaagctca cttcgggtgc ccaatgtcag gagctgntgt 420
gaactgcgtc aatattcggc taaacgccga gacaa 455

<210> 34338
 <211> 451
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-008-Q1-K1-A5

 <400> 34338

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 atggcctcca ggtcaccagt gtctacgagg atgggtccgt gttcagccct gaggtgctcg 120
 acctttccga ggaggacctg attgagaagt ttgccactgg tgtctccatg gttgcctccc 180
 tgtcactggc gatctcatac ccgacccttg ctgctgtgcc ccacatgttc atcaatgggt 240
 acaagaatgt gcttgctggt gctgtcgaga cagactactc ataccacat gctgacaaga 300
 tcaaggagta cctcaaggac ccaagcaagt ttgctgttgc ccgcccggtt gctgctgggtg 360
 actctggcgc tgcagctgct cccaaggaag aagagaaggc tgcggagcct gaagaggagt 420
 cggacgagga aatgggcttc agcctcttcg a 451

<210> 34339
 <211> 445
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-008-Q1-K1-A6

 <400> 34339

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 cggcggggcg gtgctggagg gcgtgctcac gttcctgctg gtgtacacgg tgcacgtggt 120
 cggcgagcgc gagcctcggg cgcgcgggcg cgacggcaag cgggagttcg cggccacggc 180
 gctgggcgcg ctggcgggtt ggctcacgca gggcgcgttc gtgctggccg cgggcgcgct 240
 gacgggcgcg tccatgaacc cgcccgcctc gttcggcccc gccgtcgtca gcggccactt 300
 caagaaccag gccgtgtact gggccggccc gatggtcggc gccgccgtcg ccgcgctggt 360
 gtaccagatc atggcgtgcc cgagcgtgac ggggaacgtg gaggcggtgg tcgtttgaca 420
 agctagtgtg caactgtgct gtgca 445

<210> 34340

<211> 432
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-008-Q1-K1-A8

 <400> 34340

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 tctccccacg cccgcgaacg ctaggggttg tgccgtggtc accggcgga acaaggggat 180
 cgggctggag gtgtgccggc agctggcctg cagcggcgtc accgtcgtct tgacagccag 240
 ggacgacgcg agggggcgcg cgcccggtga gaacctcaga ggcttggggc tctccgatgt 300
 cctcttccac cgactggacg ttaccgacgc tccgagcatc gctcgactcg ctggtttctt 360
 cgagaccgct ttcgggaagc tagacatcct ggtaaataat gccgcgattg gcgngttga 420
 gtatgttcat ga 432

<210> 34341
 <211> 468
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-008-Q1-K1-B10

 <400> 34341

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 tagtggacaa ccaaccatga tcagcgccaa gaagattgct catctcgcca agaagtggca 120
 gaggatggct gcacaagga ggaagcgctt cgccttgggg gcggcagcaa agcaagccga 180
 cgagtgtgct agctatgtgg cgagcaaggg ccaactgcgcg gtgtacacgg ccgacggggc 240
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 gtcacaggag gagttcggct tcacggggcg cgatggcagg atcacgcttg cctgcgacgc 360
 ggcgatcatg gagtacgcca tgtgtttgct caggagagga gcctctgctg agctagagca 420
 ggcgttctt agcaccatgg ccatgtcatg ccaactgtgcc agccacat 468

<210> 34342
 <211> 445

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-008-Q1-K1-B11

 <400> 34342

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 aggagacccc tgatgagctg gagatggagg acggtgacga gatcgacgcc atgcttcacc 120
 agaccggagg cagcgttcct agcaccacct aaaagcctcg ttttgctctc cgtcctgcgt 180
 agtagtaaac aaaagggaaa aagtcttttt aaggaacttg tgatgctctg gtcctttgtg 240
 ccattgctga gggacatcct tagcctttgt ttagtagtat ggtttggtac tttgttctgt 300
 catcactcgt ttatctatcc ctaatacatg ccgtcatgat tgtactcca atgacgcgca 360
 gatcatttgc tttgatttgt ctgctcgaac ctggaagtcg tctatgcttt tcagattatt 420
 ttgggcaaaa aaaaaaaaaac agggc 445

<210> 34343
 <211> 413
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-008-Q1-K1-B2

 <400> 34343

ggcgggttcat gatggaccag ttggtctttt acgaatcaag agcagcagcc gctgaccccg 60
 acagggacat gagactggac atcgacaaca tgagctacga ggacctgttg gctttgggag 120
 aatctatggg caatgtcaac acaggcttgg ccgatgagaa aatttcgaag tgcgtgaaag 180
 aagtggctctg ctgcagttcc gaccagacgc aaaccgatca agatgaccag gatgacggaa 240
 gctgcgtcat ctgcctggag ggttacagag acaaggatat gctggggata ctgaaatgca 300
 ggcacgactt ccacgccggc tgcatacaaga agtggctgca gacgaagaac tcgtgcccgg 360
 tgtgcaaagc cgnccgncgnc taggacgaca ccagaggagc gagcaactat ttt 413

<210> 34344
 <211> 461
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-B3

<400> 34344

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ggctcggcga cgacagcatc gcctccgccg agctcacaca gaccgccaag atcgagaagc 120
aggggatcac caggatgcag gtgcccttca gcttcaggcc caaggacttc ggatccgctg 180
tctgggacat gatcagggga aggggcacgg gatacaccat caagggaaag atcgatgtcg 240
aactccctt cggcaacatg aagctgcca taagcaaaga gggtggaacc acccgctca 300
agaaggagga cgacgatgac gacgacgaca actgaagtga ggactgctgg ggcgctgctg 360
ttacctttca cgaaacgcag cgaagcagag gatgcgggga tcgtcgtcga cctgataccc 420
atacccttag cgcttggtta gctcttggtt ttagcttatg g 461

<210> 34345

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-B5

<400> 34345

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tctagctcta gcctctagcc ctagctagta gctagccact cggtcgtgta gtcacagcc 120
ttctgatcgt caccatggc cactgccgag gtccagacct cgaccgtcgt ggcgaccgag 180
gaagcgccgg tggaggagac cccgggtccg cccgccgtcg tgcccgagga ggctgcccc 240
gccgccgagg ccaaggtgga ggagccagct gcccggcgag agaccgagcc agctgccgtc 300
gctgagcccc aggcggcccc cgtggcgggc gaggaagaga cgccaaagga agaagagacg 360
gcaaaagatg cggagccgga gccggagccg gcggcg 396

<210> 34346

<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-B6

<400> 34346

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 agaaaaaata aaaaatataa aaaaaaaaaa aataataaca actaatttaa aataatcaaa 120
 agttctttcc attttcaacc atacttcttt ctttctcttt attttcaact tatttcattt 180
 actttgctgt cttttaactt catttaccct gcctactctt tacatcatcc ccaatttaat 240
 aaactttcgt cttttccacc ttattccctt ttccatattt ccccttt 287

<210> 34347
 <211> 450
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-B7

<400> 34347

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 gttaagtatt gtttttttgt gtgtggacgt gattcttcta gtgagatatg ttctgaagcg 180
 gcaaggtaaa cctcttagt ctacttgttt aacttttaaa atatacccat cggtttgaat 240
 gatgcaaaac tacaataatc ttcatgtact tgattgacta atgagttgga tatgattcgt 300
 attctatttc ttaaaaaagt aaggcagaag atagctagat tcatgatttg gcaaatacaa 360
 cctcaaatta acttgctat tcatcgatta tgttcaggaa ataatgtatc aattaattga 420
 aggaagtaat agtagtggct catctagaac 450

<210> 34348
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-H8

<400> 34348

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 ccggggagca caagccgacg ccggccacgt acaccccgag ccccaaacc acgccgccga 120
 cttacactcc aagccccaag cctccacac accctacgcc caagccgacc ccaccgacgt 180
 acacccttc cccaaagcct gcgacgccca agccgacccc accgacgtac accccttccc 240

caaagcctgc gacacccaag cctccgacac ctaagccgac cccgcctacg tacactccaa 300
 gccctaagcc accggctacc aagccttcca cgcccaagcc gaccccgaca acgtacaccc 360
 ctttgacaaa gcctacgaca cccaattcga accctgctgc gtacaccctt tttttc 416

<210> 34349
 <211> 381
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-F7

<400> 34349

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 gctgatccag gaaatgcatt tcttgtgcca tcaccttact acccgggttg ggatagggac 120
 ataaaatggc gaactggtgt tgagttgata cctgttcctt gtcgtagtac tgataacttt 180
 aatgtcagtg tcaactgctct tgaaatagct tacaacagg caaaaaagcg aggaataaga 240
 gttegtgggg ttctcatatc taacccttcg aaccaacgg gaggcattgt gccaaaagaa 300
 atactgcatg accttctaca gtttgtgca gagaagaaca tacacttaat ttctgatgaa 360
 atatttgctg gttcaacata t 381

<210> 34350
 <211> 261
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-G1

<400> 34350

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 ttgaatctgc ttttatatat atatatat atataatttt cctacggagg tgggaggagg 120
 agaggtggac gaagaatagt gtaacgatga taatggtggt ggttgagggc ctgaaacgat 180
 gaacacatgg ggttgggttg ggtgtatgta tctgtcacac gcagcttttg tgcaagacta 240
 ttatactaca tcgctggtcc c 261

<210> 34351
 <211> 334
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-G10

<400> 34351

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ttgttaatat aaaaaaggat aaagtacaaa aaaataaaaa ctaatatata ccaatataaa 120

cataattatc ttcaattctc tgttcactct attataacct tctgactttg aaaaacttac 180

ttttttctac ttaatccaac tttaaacata gtccgtttta ttcaattctt tttaactgaa 240

caattctgta cctttcccac tttataacat tttgtcagac ttctgttta atggaattca 300

tcttttatcg gcacattcat ctctacattc tttt 334

<210> 34352

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-G11

<400> 34352

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attcttggcc aaggctattt gtacaaactt aatggcatta aggccaaaat ttacactct 120

tactatgaaa taccaatacc ccctacttct cctattaatc actacttcca tcccgaaagc 180

cccacaattt gaccagctta ctatgatggg atcccatgct aatttatcca gatcgattaa 240

ttgctattag cactctaatt tattcaaatt aacaacagcc ggacacacta accggccaat 300

ta 302

<210> 34353

<211> 367

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-007-Q1-K1-G2

<400> 34353

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tcccccgacc gacgaccgtc cgtccaccac cggatccagg agcgaccctc cctcgtgctc 120

gtcgacgatc gaccggccgc cgatcgcca ggaaggatgt cgagcctcga ggagccgctg 180
 ggtctcggag acctgcctaa gttgagtatt aacagactcg ggcggttcgt gtcgctgggc 240
 gctcggaggc caccggccga cgacgacgac cacagcactg gcaaatacag cagcagctcc 300
 tgcaacaatg gcagccctca gatggcattc catcatggca gcaactcctn ctatccctgg 360
 caccgc 367

<210> 34354
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-G3

<400> 34354

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 accagtgatt cctgcgggca ctggtctccg cctaggtccc aggaggccag gaccgcctcc 120
 ggccctccgc gactccgtcg gtccaccggg actggcttgc cgctgccagg ggctccatcg 180
 cccagtaccg gtcctgggtac acaagcggaa ggcggccgag taccaagacg cagcagcagc 240
 gcgaggcgcc tgggtctccac ctctctctggg atcaccaccc aagaaaaggg tgcgcgggcg 300
 ataggcgacc actgagattt tattctctat ataacatttg gcttgcaa atctcaatgt 360
 caagtgtttc aaattctatt gctgtgggtc ttccaagcta tgggctatat ctagagacaa 420
 ggttctcac 429

<210> 34355
 <211> 301
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-G4

<400> 34355

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 accggggatt cctccgggca ctgatgtcg gctaggtccc aacatgccag gaccgactgc 120
 ggccctccgc gactgcgtcg gtccaccgag actggcttgc cgatgccagg ggctccatcg 180
 cccagtaccg gtcctgggtac acaagcggaa ggcggacgag taccaagacg catcagcagc 240

gcgaggcgcc tgggtcttcac ctactttggg atcaccaccc cagaaaaggg cgcgcggcgc 300
a 301

<210> 34356
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-G6

<400> 34356

ggcatgtgtc tggttggaag agacgctaaa gaaatttgac cgcatactgg ttggcatatg 60
gcactcccag gactttctga atggtgtgtg cactaacatc atccatatgc agaacaagaa 120
gctaaagtta tatactggga attatgacca atacattcag acacgctccg agcttgaaga 180
aaatcagatg aagcagttca agtgggaaca agagcagatt gcatcaatga aagagtacat 240
tgcacggttt ggccatgggt ctgcaaagct tgcacgtcaa gctcagagca aggagaaaac 300

<210> 34357
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-G8

<400> 34357

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gtcgtgggtg agcggatcga gatggcggcg tcggatgttg agtaccgctg cttcgtcggc 120
ggcctcgcct gggccacgga cgaccactcc ctgcacaacg ccttcagcac ctacggcgaa 180
gtcctcgagt ccaagatcat cctcgatcgg gagacgcaga ggtcccgcgg cttcggcttc 240
gtcaccttct ccacggagga cgcgatgcgg aacgccatcg agggcatgaa cggcaaggag 300
ctggacggcc gcaacatcac cgtcaacgaa gccagtcgcc g 341

<210> 34358
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-G9

<400> 34358

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gctcgtcgcc gccgtgtgcg cgctggcggc gccggctgcc gcggtcgtca ctgacggtct 180

tctcccgaac ggcaacttcg aagatggccc gcccaagtcg gcgctggtga acggcacggt 240

ggtgtcgggc gcccacgcca tcccgcggtg ggagacgtcc ggcttcgtgg agtacatcga 300

gtcggggcac aagcaggggg acatgctgct ggtggtgccg caaggcgcgc acgcggtgcg 360

gctgggcaac gaggcgtcga tccggcagcg cctggacgtg gcgcgcggcg cctactacgc 420

catcacgttc agcgtgtcg cgacgtgcgc 450

<210> 34359

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-H1

<400> 34359

gcggtaaaaa tggagagctt gatgaggccc aaggaattgt aaatcagatg gtggataggg 60

gtggtttgcg tgacaccaca acgttcaaca ctctcattgt tgctctgtgc tcacagaatc 120

gacttgagga agcattggac cttgcacgtg agctaactgt gaagggactt tctccagatg 180

tctatacttt caatatcttg ataaatgccc tttgcaaggt aggagatcct catcttggca 240

ttcgattgtt tgaggagatg aagagcagtg gatgcgctcc tgatgaagtt acatacaaca 300

ttttgattga tcatctttgc tcaatgggga agcttgtaaa tgctttggat ttattgaagg 360

agatggaatc caatggttgc cctcggagta cagtgcata taacacaata attgatg 417

<210> 34360

<211> 267

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-H10

<400> 34360

gccgccaag gagcacattt ctaccattgt agcactgtcc caagcctctg agtccgtccg 60

tggagctcaa gccgactccg ggcacgtaca ctccctagccc caaactcact cctccgactt 120
 aactccaag cctcaagcct actacacact cgacgctcaa acctacctct ccgacattca 180
 ccccttcccc atatacctatt actcctaaac ctacccccacc gacttacact cattcatcaa 240
 agccttctac tcctaatacct cctacac 267

<210> 34361
 <211> 203
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-H11

<400> 34361

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 ggctcggttac tggaacttta cagtacccca aaatctcata tccttcctgc ccgccccccc 120
 gttcccgctct actcgctggtt cttgtcttcc gcgctccacc ttctttttct cctacttcat 180
 cttaatcgga tactctcata ttc 203

<210> 34362
 <211> 450
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-H12

<400> 34362

aaaatggata tgccccactg caccttcaag acccgtgtca gtgtttggcg ggttccccgc 60
 cacagcatgg tttgatgttg ctgatcttcc tgaggatgct cctgatgaca ttgagggaat 120
 cgatgcctca gcagcacatg ttgcgaatth gttgtcaact gaacctgctg acatcaaact 180
 tgggtgttggc ggcttttagta tgggtgctgc tactgctctg tactctgcaa cttgctttgc 240
 ccatggaaaa tatgggaatg gcaaaccatt ccctgtgaac ctaagtcttg ccgttggtct 300
 tagtggctgg cttccatgtg ccaggacctt gaagaacaga attgaagcct caccagagtg 360
 tgcacaaaag gcttcatcaa tacctctttt gctctgtcat ggaaaagctg atgatgtagt 420
 tgcctacaag cacggggaga gatctgctgg 450

<210> 34363
 <211> 258
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-007-Q1-K1-H2

 <400> 34363

 gcgcacgcgc tttgtgctta tgagcatggg gatactccca tgcttttggc gcgcaccaac 60
 tgggaacgtg taagacgtct cgtggaccaa gccatattac tcgcgatgga gagaagcctt 120
 cctcgacaat gtcttgttcc acatcatcca gttctatgtc aaggagtgtc ctgacaacac 180
 cttagacttc ttcaccctgt actactgtgt tcctcgtcac ctaccaagc ctgtctacga 240
 atccttctat gtcattct 258

<210> 34364
 <211> 236
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-007-Q1-K1-H5

 <400> 34364

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 gggaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaactaaaaa ataaaataat aacaaatata 180
 ataaccttaa aaaaaaaaaa taaaattaca taaaaaatat aataacataa taataa 236

<210> 34365
 <211> 374
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-007-Q1-K1-H6

 <400> 34365

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 acgaccttgc tagaaaagtt gaagtcgatc tacttgaagg gagaagggtt tccgcgatgat 120
 cgtattgttc caacagttgg ccttaatatt gggcgtattg aagatgcaaa tgtaaagctt 180
 gttttctggg atctgggagg ccagcctggc ctacgaacaa tatgggagaa atattatgag 240

gaagcccatg ctgtaatata tgttatcgac tctgcttctg catcatcatt tgaagatgct 300
 aaatctgctc tcgagaaagt tctccgtcat gaagatctgc atggagcgcc aatacttata 360
 tttgcaaaca agca 374

<210> 34366
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-H7

<400> 34366

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 gactgccaat caagcgagcc accaggtttg agaataaggt gggatccaag aatgtagtgg 120
 ctggtgaatc actgatcaaa aagcggattt ttgagagatt cttcatcgat ctagtggccg 180
 gtgaatcact gatcaaagag cgagcagccg ccgggtttta tgattttgtg ggatccctgg 240
 atgtagcggc tggcgaaccg cttcttcttc caciaagatt cagacaaaac cgagcttggg 300
 tagaactgaa gaagatttgg cgaacgaaga aaaaggtaaa agggtttcaa attaataaaa 360
 tagaaggagg ttattcaata tccattgcaa gttttattac ctttc 405

<210> 34367
 <211> 487
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-F5

<400> 34367

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 aggaattcgt taattcaatg agtgtgtacg ggaggagact gtatgtcagg cgacaaatca 120
 gaaacgtgaa agcaagggtg tgagatatta atagcatggt agttaagaga tctatacaat 180
 tagatcttat ctacatcttc cggagtatcg taaaccaagg tatatctgat atgcttggtc 240
 agcattctcg agtaatctcc tcagctcggg ggttcagcc tgaagatagc aggtagctgc 300
 agtagcttgc ggaatcttct actggtacat ggacaactgt ttggactgat ggacttacca 360
 gtcttgatcg ttacaaagga cgatgctatc acatctagcc cgttcctggg gaccagatc 420

aatatatctg ttatgtagct tatccattag acctatttga agatggttct gttactaaca 480
tgttttac 487

<210> 34368
<211> 214
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-D1

<400> 34368

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ccaggggttg cgggccgtta agcagaaaag ataactcttt ccgaggcccc cgccggcgctc 120
tccggacttc ctaacgtcgc cgtctgccgc cacgttcggg ctcgggaaat cttaaccgca 180
ttccctttcg ggtgactcgc gtgatcgctc tate 214

<210> 34369
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-D12

<400> 34369

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ggcgggtggct gcgctcctgg cgctgctagc cgcattcatc acggccggcg ccgtgacgtt 120
cgacgcgacg aacacggcgt ccgatacccc cggcggggcag cggttcgacc aggccgtcgg 180
cctcgactac gccaagcagg tcctggccga cgcgtccacg ttcattctgga acaccttcga 240
ccagcccagc cccgccgacc gcaagcccgt cgacgcggtg accctcgctc tcgaggacat 300
cggcggcggtg gccttcacga ggcgcaacgg gatccacctc agcgcgcagt acgtcggcgg 360
ctactccggc gacgtcaaga ccgaagtcac cggcgtgctg taccacgaga caacgcacgt 420
gtggcagtgg gacgggcagg gccaggcgaa c 451

<210> 34370
<211> 342
<212> DNA
<213> Zea mays

ggctgaccgt agtaccggcc ggcgcgcgac cgagctagct agctccggcg cacacaacca 180
cacacctgtt taattctgta ctgcatgcgt gtgtaatttg atggttcaca ataatgagtc 240
cctctccgga ccttggttagc tgcttgcttg tggtagtgga gagtgtgaga ctgagggaga 300
agaggtggtg ggcgtggggc tacgtcgaga gaggcgtggt cctgtaatcc tgtactcgct 360
tcgttttctc tgcatgcgtc tataattgtg ttcaataata agtgagagcg gtgtgatgtg 420
tg 422

<210> 34373
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-E1

<400> 34373

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cagctagctc gggcggcagc aggcagccat catgtcggag gagaagcacc accacttctt 120
caaccaccac aagaaggacg aggagcagcc cgccggcgag tacgggtact ccgagaccga 180
ggtggtcacc gtcaccggcg agggcgagta cgagaggtac aagaaggagg agaaggagca 240
caagcacaag cagcacctcg gcgaggccgg cgccatcgcc gtcgggcgct tcgcactcta 300
cgagaagcac gaggcgaaga atgaccccgga gcacgcgcac aggcacaaga tcatggagga 360
agtcgctgcc gcggcgggcg tcggcgccctg cggctacgta ttccacgagc accacgagaa 420
g 421

<210> 34374
<211> 278
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-E11

<400> 34374

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa ataaataaaa aaaaaaaaaa ataaaaaaaa aaaaaaaaaa ataaatatat 180

taaaaaaata attaaaaataa aaaaaattga gttaccttat aaaataacct aactgaaaaa 240
acaatttttaa aacccaacta aattatctta taggaaat 278

<210> 34375
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-E7

<400> 34375

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caactctaaa agcatccgtc ccttggcagc agcaacaagc tactagctat gtgtgttttag 120
agcgagcgag ggaaaaaaga aaacatctaa gatatactcc aacatcttcg tttgattaac 180
ccgcccagta aagccatggg tactaattat agagcgggtca tttctctagt actcctcgtg 240
tgcacgcgta gccgctcgtc cttgggtgcc gctgaaactg acgttgagca gaagcgcctc 300
tcagtccttt tgatgtttgt gttcgggtgat tcgctgggtc atgtcggaaa caataacttc 360
ctgccgccgt ctgcaccccg tgctgcatct ccgtacggca tcgacttccc ttctggcacc 420
ccc 423

<210> 34376
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-E8

<400> 34376

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ctgacgcgct gggggactcg aggcaactcc acgcttgatg ggtgaacggc tgtggtggag 120
gacatgcgtc gtcagctgct gacctatgga cgaagaatta ctaccccgaga gctttttgca 180
agaatagatg ctgttgatgc aaacactgtg aagcgtgttg caaaccgatt catctatgat 240
caggatgcta ctattgctgc tatgggaccg atccaaggac ttgcagacta ctactgggtc 300
agacgcctga cctacatgct ccg 323

<210> 34377
 <211> 360
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-F1

<400> 34377

gcggtgagag agaggatggg tggcagcggc atggctgctc tgctgctggc cctggtggtg 60
 gtggccgtga gcctggccgt ggagatccag gccgacgcct ggtacggtta ctgctgctgg 120
 tacacccga ctctactcc ggtcaccccg acccgaagc cctagaagcc cccaccaat 180
 gggcctaadc cggacaagcc gtccaatgag cacaagccgt ccaaggagca ctgtcccaag 240
 ccggataatc cgtccaagga gcacaagcct acgccgtcca cgtacacccc gagccccaaa 300
 cccactccgt cgacgtacac ttccaccccg acgcccccca agccgacgcc aaccacatac 360

<210> 34378
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-F10

<400> 34378

cggacgcgtg ggcggacgcg tgggcggacg cgtgggtccg cgaatcacat gcgcgtctgt 60
 ctgagcttgc tgcgtgcac gtaccctgcc ctgccatcat atcgtacgtg agcccgcccg 120
 agcgagagcg agggagaggc atggctgctc cgaagctcgc gacgctggcg ctggccgtgc 180
 tcctggcggc gaccgtggtg gctcccccg ccgcggtgcg cgcggcgatg tcgtgttcca 240
 ccgtgtacag cacgctgatg ccgtgcctgc cgttcgtcca gatgggcggg gccatgccgc 300
 ccagccgtg ctgcggcggc atccgcagcc tgctgcagca ggccaacaac acccccgacc 360
 gccgcacat ctgcggctgc ctcaagaacg tcgtcaacgg cgccaacggg agcggcacct 420
 acatc 425

<210> 34379
 <211> 179
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-F11

<400> 34379

tgctggcttg tgctccgcct ttccttecta cactgggtca ttaggtctct gcggggttct 60
ggttgacagac cttagcgcac cgagatggcg gactcgcatg ttgcgtaccg ctgctttgtc 120
ggctgtctag gctcggccac ggaccaccac tcaactgcaca acgccttcag cacctaccg 179

<210> 34380

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-F12

<400> 34380

gtttatagtt gagactgtaa tactcatctc tcaattgttt tctgtcaagg ggggtgcaaga 60
aataccaatt aatctggatg tttatggctt ttctggtaaa tatgggttga cagaaattat 120
agcttctggc ttgagctggg tggtttcaga tcttgtccag tgccaaccag tgtgtatata 180
tacattttta aggtcttgta acctagataa ttagtgtcaa cttcgaggct gcgagtccac 240
accttatcta ccgtgcttgt ctctttttct ttatttacac atgcatttat tttgcctctt 300
attgcattat gcccttttca ggatgaaaga tgctcgaagt tgaaaatata cccaatactg 360
cagaaggttt accttgaaag aattttgagg aaaccagaaa ttgatgcatt tgcagaggag 420
cttatgccgc atcaagaaag ctttatta 448

<210> 34381

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-F3

<400> 34381

gaaggccaca gcggcacagc gccagcggca acagtcacca gaccaccact accagtctag 60
caccggctg acctgagcga ccccttcgct tccactccac tgaagcgggc caaaagaagg 120
aaagaaggcg ggcaagcgac aggaaggagg agaagccatg gcgagcgacg gcgacgggaa 180
gggccgggtc gcgacggcgc cgggggcagg agggtagggc tacggctacg gctacgccgg 240
cttcgagggg gaggaggacc ggaagtggg gccgtggctg gtgcccaccg tgatcgtcgc 300

atgcacgcgc gtcttcgctc tcgagatgta cgagaacaac tgccccaaga accggagcca 360
gctcggcggc gactgcgctc 380

<210> 34382
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-C9

<400> 34382

cccacgcgtc cgcccacgcg tccgcccacg cgtccgaaaa aaaaaaaaaa agaaaaaaag 60
aaaaaaaaaa aaagaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa caaaaaataa aaaaaaaaaa aatttacatt acataaaatt 240
caaataattaa atatataaaa aaatagccaa aaagataaaa acaaatcgcc attataaaaa 300
aaatcacaac cgga aa 316

<210> 34383
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-H11

<400> 34383

cccacgcgtc cgcccacgcg tccggcagca tcacaagcaa actgaagtca ctcacagctc 60
ggcagcttcc atccagaaag gagaaggaaa caagctagtg gacaaccaac catgatcagc 120
gccaagaaga ttgctcatct cgccaagaag tggcagagga tggctgcaca agggaggaag 180
cgcctcgctt tgggggcggc agcaaagcaa gccgacgagt gctgcagcta tgtggcgagc 240
aagggccact gcgcggtgta cacggccgac ggggcacggt tcgaggtgcc gctggcgctgc 300
cttagcacc cggctcttcgg ggagctccta caaatgtcac aggaggagtt cggcttcacg 360
ggcggcgatg gcaggatcac gctgccctgc gacgc 395

<210> 34384
<211> 436

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-006-Q1-K1-H2

 <400> 34384

 cccacgcgtc cgccacgcg tacgaaaagt ttcggcggcc ttctccatga acacggtggc 60
 ttcgctgcct ttggcgccgc gctgctcat taagccctcc ctgcctgct tctccagaaa 120
 ggacgtcggc cgctatggcg ggatcaaggt gtacgccgtg ctcaggaag acggggccga 180
 gttcgcccgg aacaacaacc tggaggccct gttccaggtg gacgaccccg ggccgcgggt 240
 gcccgtaag aagttcctgg acgtgaacga ggctctggag gtggtccgct tcgacatcca 300
 gtactgcgac tggagggcgc gccaggatct actcaccatc atgcttctcc acagcaaggt 360
 ggtggagggtc ctcaaccctc tggcgaggga gttcaagtgc atcgggacct tgaagaaaga 420
 gctcgacgag ctacag 436

<210> 34385
 <211> 227
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-006-Q1-K1-H5

 <400> 34385

 aaaaaaaaaa aaaaaaaaaa aaaattaaat ataaaaaaaa aaaaaaaaaa aaaaaaaaga 60
 aagggaaaaa aaaaagagaa ggaaaaaaaa aaaaaaaaaa aaaaaataaa ataaaaaaaa 120
 ataaaaaaag ggccttcctt tttatttaac ccaattttcc tttccctca attcaactca 180
 ttaatttttt attatgttca cctaatttaa tttcatattc ttttttt 227

<210> 34386
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-006-Q1-K1-H7

 <400> 34386

 caagttttga aaactgaact gtaagatggc atcagcagag ctttcccgtg aggaaagtgt 60
 ggacatggcg aagctcggcg agcaggcaga gaggtacgag gaaatggttg agttcatgga 120

gaaggtagcg aaaactgttg actcggagga gctcactgtg gaggagcgca acctcctgtc 180
 tgttgcatatc aagaacgtca ttggagcccg ccgtgcctca tggcgcatca tctcctccat 240
 cgagcagaag gaggaggggtc gaggcaatga ggaccgtgta acactcatca aggactaccg 300
 tggcaagatt gaaactgagc tcaccaagat ctgtgatggc atcctcaagc ttctcgaatc 360
 tcaccttgtg ccgtcttcca ccgtcccga gtccaaggte ttctatctca agatgaaggg 420
 tgactactac agat 434

<210> 34387
 <211> 104
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-H9

<400> 34387

gcgacctatg gacctgcac agactgtctc ccctaagttg gccgatattt atgttacata 60
 gaatggtagc cctgggtctat gggttaatgaa cgcgctgtac aact 104

<210> 34388
 <211> 281
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-A11

<400> 34388

tcccacgcgt ccgaaaaaat ttaacacctt tacaaaaaaa aacaaccaa aagaaaaaaa 60
 tgaacactaa ccaaccgtac taagcttcta caccatacct aaaattcact cacaaacata 120
 acatccctct tattaataaac taaacccaat ctattgaccg taaactatct aattcttaca 180
 ctacgaaatc ttttccattt cccaatttat ttcctttatt tataccgaca cattcactaa 240
 ttttcaaact cttatacaaa ccaactcttt tttttgaacc t 281

<210> 34389
 <211> 370
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-007-Q1-K1-A12

<400> 34389

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gaaaaaaaaa aaaaggaaaa aggaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaat aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa atgaaaaaaaa aataaaaaaa agaacatatt ttaaaaaaat ttaataaatt 240
aaaaaaaaat ggatttataaa aaaaaaata aatttaaata aaaaagatat tattaataat 300
taataaaaat aataaaaaga taataattaa taagaaaata aaaaaattta aaaatataaa 360
aaaataaaaa 370

<210> 34390

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-A4

<400> 34390

aaaggattcc atcgtgttgc tgagagtctt gatgatctca ttcttgacat accatctgcg 60
gagtctgaat ttcagttggt ggtatcaaaa gccatttctg agggatgggt agattcttcg 120
tatgtgaact caggtgtcaa cggaagcggt gaagacgatg aacatgagaa gctggctagg 180
tacaagaggg aggctgtatc cataatacac gaatactttc tctctgatga tacaacagag 240
gtcatccgta gtgtcaaaga gcttggttat ccggaatata atccgatctt cgtcaagaag 300
ctcataacaa ttgctatgga ccgcaagaac agggagaaag aaatggcatc ggttcttctt 360
ccttcattaa acatggagct gttctcgtct g 391

<210> 34391

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-A5

<400> 34391

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tccggcgtct cacgcgcgga tgagggtccgg atccgggtgc accaggtcac gatccggggc 120
 tgcgcccga cgcgcgcgc cgcgggtcgag gcgggcggtcg gcccggacgt gtcgcgcgcc 180
 gtcaccgtgc gggacctcgt gcgcgcgcc gtcgcgcgtg gtgaccggct ccgttgccctc 240
 ggcgccttcg acacagtctc catcacccctc gacgcggcgc cgtccgggat ccctggcagc 300
 gctgtcgtcg tcctcattga tgttgcggag gccc 334

<210> 34392
 <211> 395
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-A9

<400> 34392

cccacgcgtc cgcacctgtg cattctgatg ctgacactaa aaaggaagca ggtgcagagg 60
 gtaccgatgg agccgctgat gatacatcaa cgctgtctga ttgtacacct aaaccaaagc 120
 gaggccgtcc tcctggccca aagtcatcac agaagaaggc tgctggaaag gatcaatctt 180
 caggttcaga tttgaaaaag gtcaatgagg ctggtgattt agccggaaag ttggcgaaac 240
 gaccagcgaa ggatgagaag tccacaaaga aggctggtga aggagaatca tctaagaaga 300
 cccaaaagta caattcaaaa caacagaagg atgaaaacct atctgaggat cctgccaaagg 360
 atctgagctt aaaggaaatg ataacgccaa aatct 395

<210> 34393
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-B12

<400> 34393

caaggattgg agagagaagc gggatgagtt caagaagaag gttaggcaat gtgtccgcag 60
 gtctcaggaa atgctgtgaa ggaggaacat gggggagttg aatgagtctg caatcggtgt 120
 gctgcaattc acaaccaatt atctcatgcc atcattcttt tgctttcccc tgtatatattt 180
 ttcaaccggt gtcactcgta tagtggtggt ggggtctcttt agacaaactc gggacggttg 240
 cttatcctaa aaattcgatt gtactgcgtg gcatgaaatg atcgattcga agaatatattt 300

34396-34398

<223> Clone ID: LIB3068-007-Q1-K1-C12

<400> 34396

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ttctagctcg ttgcattatc catggctgag gagaagcacc accaccacca cctgttccac 120
cacaagaagg acgaggagca ggccgcggcc ggcggttacg gcgagtcgc cgagtacacg 180
gaggccacgg tgacggaggt cgtgtccacg ggcgagaacg agtacgacga gtacaagaag 240
gaggagaagc agcacaagca caagcagcac ctcggcgagg ccggcgccat cgccgccggc 300
gccttcgcac tctacgagaa gcacgaggcg aagaaggacc cggagcacgc gcaccgtcac 360
aagatcgagg aggaggtcgc ggcgggcgcg gccgtcggct ccggcggtt cgccttccac 420
gagcaccacg agaagaag 438

<210> 34397

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-C4

<400> 34397

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gtcataaatc cgtgccatgc aaatttgtga agagcggagt tgtagcaaaa atgaagccac 120
ctaggatcta cattttgtcc atgcacattt cgtttttctt ggtcactt accttagagt 180
agcaatgtag tagtggaat gccttaacag ggttagtag catggaaatg ttttggtggt 240
aaattaatga attaattctga gatgtactag tttgtagttt gcacataccg tcgtgtcaat 300
gtcttttata ttgaaaaaaaa aataataaaa aaaaaaaaaat aataaaagaa aaattaaaaa 360
tttaaaaatt ttaataac 378

<210> 34398

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-C5

<400> 34398

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aggagtacgt acagaacttg ggacatggaa accgtcgtgg gcgacctcat ggcgaccgag 120
ctgaggcttg gcctgccggg caccgtcgac gactgcagcc agccccaact ggtgaaggcc 180
acgccgccgt cgacgccaaag gggcaagagg cgcgccaccg ccgatgccgt ggaggaagcc 240
gccggcgccg aggaggcaag caagcgtgac gccgagacgg cgcccccgcc agccaaggcg 300
cccgtggttg gttggccgcc ggtgaggtcg taccggaaga gctgcttcca gcaggccagc 360
agcaagcatg cggcagcggc caaacaggaa gcggc 395

<210> 34399
<211> 421
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-006-Q1-K1-E6
<400> 34399

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gagaaccagc tgctgcggag tgcggagatg tcgtcgagc tgatcgagga gcaccggtcg 120
ggcgcgagg tgcacgtcgg gcacgagctg tgcgagcgca agtcgcgcga gttcatggtg 180
gagctggggc tccccgacgg gctcctcccg ctgcccagcc tggacgaggt gggctacaac 240
cggtcgacgg ggttcgtgtg gctgcggcag gccgccggcc tgaccacac cttcgggtcc 300
atcggaagc aggtgtggta cgacagggaa gtgacggcgt tcgtggagcc ggggcggatg 360
cacggcctcg ccggggtgaa gagcaaggag ctctcatct gggtcacat ctccgagatc 420
g 421

<210> 34400
<211> 444
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-006-Q1-K1-E9
<400> 34400

gcatgcagtc gtgtaagtcc tgcgaccta actgattatg cactccaatg ggctgccgag 60
gacagagggg agaaatacac tgacgagtgt taggtggacg tgggcatgt tgctgctgct 120

gacgaggctt cgcgacccat agtaaagca tacaacagat gacctgactc gtccagctgc 180
 aggcggcgtc aggcttccga cgctacttct aactccgttc gcctccagtc gacaccgtgt 240
 cccgctggca cgctgtctca gcagggttaac acaatttggc ccagtgttta attgaatcct 300
 gcttgctgca ctgcggaaca ccatggcgtc gtcgaatctg caaatgtctg ctgacgacag 360
 cgtgctgctg ctcatcacc actccaatct gaccaccttc gcagctgaca tgcgcgtatt 420
 gcaacatacc accgtggagg cgct 444

<210> 34401
 <211> 396
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-F1

<400> 34401

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 tagatttgcg aagagggttg cccagtcgta tccttcaggt tgggtgattga caaagagact 120
 ggcaagccaa aagggttatgg cttttgagag tacaaggacg aggaaactgc tctaagtga 180
 cggcggaacc ttcagggtta cgagatcaat ggtcgtcagt tacgggttga ttttgctgaa 240
 aatgggagga aactgacag aaatagagaa aaggtcgacg atcctcaa at tttactgta 300
 gaagagcctt tctaccacc tttggagttc tctgttaatc tgagaagttg tattgtcttc 360
 gttctgtgaa tgataatagt tgcgccttct tcaacc 396

<210> 34402
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-F12

<400> 34402

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 taggtagcta gctgaatcac aatggatcct accaagttcc gtccgtccag tagccacgac 120
 acgacggtga cgacgacgaa cgcgggcgct cctgtgtgga acgacaacga ggcgctgact 180
 gtggggcctc gcgggtcccat cctgctggag gactaccacc tgatcgagaa ggtggcgac 240

ttcgcgcgcg agcgcacccc ggagcgcgtg gtgcacgcgc gcggggcctt cgccaagggc 300
 ttcttcgagt gcacccacga cgtgacgtcg ctgacgtgcg ccgacttcct gcgcgcgccc 360
 ggcggtgcga cgccttgat cgtgcgcttc tcgacggtga tccacgagcg gtgggtccccg 420
 gagacga 427

<210> 34403
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-F4

<400> 34403

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 ccagcgcaaa gcgatggcgt cgctcaccat gatggcgctc ttcgccgcgc tggcggtggc 120
 cgcgccctcg cgccgcggca ccttcgccgt ggtcaggctc gccaaaggctg accgctgcca 180
 ggagcccgcc acgctagcag caaccgaggc caggccccgc gccgacggac gccgcgccgt 240
 catgctcgcg gctgctgcgg cgcccgctgg agccatcggc ggcgccggcg ccgccatggc 300
 gggccccaag aacgggaccc ccgaggcgaa gaagaagtac gcggccatct gcgtcaccat 360
 gccaccgtc aaggctctgcc acaactgagc acgcccgcgt tgcattgc 407

<210> 34404
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-F5

<400> 34404

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 cgaattgaag catgagggaa tcgattaatc gtccgcctac gccgagcgcg gtggaggatc 120
 gggacaagga gccttctctc gtagaaatca ttaacatcaa gtttgtagag agtggagaga 180
 aggagaagct gacggagctc ctccgcgagc ggctcgctga gtgcggctgg atggatgaga 240
 tgaaggcatt ctgcaggac tatgtaagga agaaaggaag aaataatgtg agggtagatg 300
 acctcattca tggtattgtt ccgaaaggaa gagcatcagt gcctgcttcg gtgaaggcag 360

aactcctgca acgtatccgg tccttcatgg ctaccacact ttggtagtca tttatcgtga 420
cggttgagc taca 434

<210> 34405
<211> 432
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-006-Q1-K1-F6

<400> 34405

cggacgcgtg gcggacgcgt gggttactgg actgatgatg ggcttgata ttatgagtgg 60
cttcagcttg cggaggacct ggggtgctgcc ccaatctggg tattcaacaa tggaataagc 120
cacaatgatg aagttgatac tgtagctatt gccccttttg taaaggatgt attggacagt 180
ctggaatttg caagggggag tgcagattca acatggggct ctgttagggc tgcaatgggg 240
caccctgaac ctttcttggc caaacatgtc gcaattggaa atgaagattg cgggaaaaag 300
ttctaccgtg gtaattacct caaattctac aatgctataa gagaggccta tccagacatt 360
cagatgattt caaactgtga tggttcatct agaccacttg accatcctgc ggatntgtat 420
gatttccatg tc 432

<210> 34406
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-006-Q1-K1-F8

<400> 34406

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acaggggtga cgcgctcgcg cagctgagcc cggctctgcg gaagatcgac agccggttca 180
tctgcatgaa atccttcgtc gtcaacgcag aaatcgtgga gttcttcttc gttgacacca 240
ccacgtttca actcaagtac tggactcacc ctaaggatga tcactacgac tggagagggg 300
tggcgccctcg ggaaaaatac ataaacaatc tgctcaagga tttggacggn gccatcaaga 360

gatcgactgc ggcgtggaag gttgccgtgg gccaccatac catgaggagt gtcagtgatc 420
atggtgaca 429

<210> 34407
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-F9

<400> 34407

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tcgacactta tatcgagctt gacattgggtg accacacatg cgatgatcac cacaagctat 180
tacttgcata tctagggatt ccaccctatg aactgtcccc aggttgatcc tacaatggtc 240
acacatcatt cagatgatct gctcaaagct cgagatgaaa cgctccgtac cgaccagata 300
caacttatac cggttctcac tgatctcacg tgcgtacact cgccatttcg atcgtatgat 360
caccatcata tctc 374

<210> 34408
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-G1

<400> 34408

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gtgctgcca tctgttagat ttttctgttc ttttaacaac cctttggtat tactatatta 120
ggagatcctc ggtgactgtg gccgagctgc aatccagaca caaggctcca tgaacaatcc 180
atttgatca acttttgtat atggttatca gaatatcgct ttcgaggtga tgaaaaacgg 240
atatattgca actgtcacc ctttccaatc atgagtgtgc cactacatgt gctgctgctc 300
tgagctctgg ctgcaacaat ggtggttaac ctgcagaaag gaagtatgcc gtacttttgt 360
gcttcagcag cagcaatttc gagtcgaagc caactctatg gggcctggtg acggtgcttg 420
gtttatggaa tggga 435

<210> 34409
 <211> 219
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-006-Q1-K1-G10

 <400> 34409

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 gctttgcgcg gctcgggtac ggcgcgccgt ccgacgcgca gatgttcac aagggctggc 120
 tgttctatcc gtacggcgcg ccgttgccgc cggtgccgc cgaaatcgcg ccggatcacc 180
 cgcgcggttt ctggctgacg cacgcgcagt ggccggcgt 219

<210> 34410
 <211> 364
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-006-Q1-K1-G11

 <400> 34410

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 gcagcaggag ctggtgctgc gtcggctgct gccgatcaac aaggccaagg cgtgccggtt 180
 caagcgcagc tgcttcagcg aggaggacga cgccgtctnc ttcgccatgc ttctgctcgc 240
 ctgcgtcgtc tgcgccccct ccctttgatg gtgataaaaa tacttttgat tactttggcc 300
 gcctgcttgt aactaatcaa catgtggatc accatgtgat gccatgaccc atgcatgtca 360
 gtct 364

<210> 34411
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-006-Q1-K1-G12

 <400> 34411

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 tgcgaagagc ttactttgga gaaatagaag gaacatgtat cacacgcgcc aaatttggga 120
 acgtgccaca tgaatattcc acaatagtag gtattgaaga atccatacaa gaaattttac 180
 taaatttgaa agaaattgta ttgagaagta atctctatgg agttagagac gcatcaattt 240
 gcgtcaaagg tcctagatac ataaccgctc aagatataat cttaccgcct tccgtagaaa 300
 tcgttgatac gacacaacct atagctaact tgagagaacc cgttgatttc tgtattgagt 360
 tacagatcaa gagagatcgc gcatatcata cggaactcag aaagaactct caagatggaa 420
 agtatcctat agatg 435

<210> 34412
 <211> 421
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3068-006-Q1-K1-G2
 <400> 34412

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 gccatgtagc ccagcgggtcc cccctcggct tcaccggcgg cggcgggcaac gacggtgaaa 120
 actacatcgg gtgctagctc cgacggtggt gcgtgccctg ttgacgatag ggcacgcggg 180
 gcgcggggcag cttgtaagcg ttcgatcggc catgtagggc aactatacat ctttggcagg 240
 tctccatcat cctccgtggg agagaagatg gtaatggagt gcgtgtgtat gtatgtgtat 300
 gccagggcg cgcgcgcgcg gctctggggc agtcacagta gagatgcaat atcatgtatc 360
 cagtatcttt cttacaacac anacagtgag aaattattag taaagtgtgc attgtgggtgc 420
 a 421

<210> 34413
 <211> 435
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-006-Q1-K1-G3
 <400> 34413

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tgccaggaga acgccgcgat actgcgggag ggcacgcgg cgacggggcg cttcgacgtc 120
ctgtccaagg acgccggggt gccgctggtg gccttctcgc tcaggacag cagccggttc 180
agcgtgttcg acgtctccga gaacctgcgg cggttcggct ggatcgtgcc ggcgtaacacg 240
atgccggccg acgcggagca cgtggcggtg ctccgagtcg tcgtcaggga ggacttcagc 300
cgcagcctcg ccgaacggct ggtctcggac gtcgcgaaga tcctgcgcga gctggacgcg 360
cgcgcgaccc acgccgtgag ggtcgccacc gtcaccgtcg agcagtcggg cgacggcgtc 420
gtggccaaga aaagc 435

<210> 34414
<211> 278
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-G4

<400> 34414

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ggccgccagt tctgaagagg gctatggaca acctattcgt gttaataaat tggctgatcc 120
tctcgacgt tatgctgac tttcgacgt gtcactgctg gctacggcct tccagctgcg 180
gtgttattct gcgaggtct gatagggatg ggccacatct cttcatgata gaacctgac 240
gagcttgcta tacatactat actgctgcat tcaccaag 278

<210> 34415
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-C10

<400> 34415

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ggcacattag atcacaactt ttgcccctct tctctaaaac ggaagctcat gttcatttca 120
gcaattcagc ttcaaccatt tggcattcat gtaatatctc atacgagtta aagggtcat 180
acctaataca gtctgcgggt ctccaattct gaaatacaaa gataatttat gttctcatct 240
ttctgaaatg aacaagatga ctggcttatg ggtaaggtt tttttataga gcaccatgac 300

ttatcaggta aagttatagt tgtgcacaaa atgtcatttt ttaatcctta atgcgtgtgc 360
tattcacacc tgtcttctct tgcagttctg tgaacaaccc taacttatgt ggtcctggca 420
ccac 424

<210> 34416
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-C12

<400> 34416

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gaccgatcga ccttcacgcc agtctcggtc tcttccgaag gcgtcgcgcg cggttggttg 120
agaggagagg aggaagatga gggagtgcac ctccgtccac atcgggcagg ccggcatcca 180
agtcggcaac gcgtgctggg aactttactg cctcgagcac ggcattccagc ctgatggcca 240
agtgcctgga gataagaccg cgggacatca cgatgatgcc ttcagcacct tcttcagcca 300
gactggtgct gggaagcacg ttccccgtgc aatcttcgtt gatctagaac ccaactgtgat 360
cgatgaggtg cgcactggca cgtaccgtca gctcttccac cctgagcagc tcatcagtgg 420
caaggaggat gccgctaaca atttcg 446

<210> 34417
<211> 172
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-C3

<400> 34417

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aaggaagggt aaaaaaaaaa agaaaggaaa aaaaaataat aaaaaaaaaa aataaataat 120
aaaataaaac taaaatatat aaaaaaatat aaattaaaaa tatattaata at 172

<210> 34418
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-C5

<400> 34418

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ccgggaatac acctaagagc tactctttga atatgttcaa agatttcgtt cctatgtgtg 120
ttttctccga atctaacc aa gggaaacttt catgtgaagg aaaagtcgag cataaatttg 180
acatggaacc tcacagcgat aatttggcga actatggaaa gttatgccgt gaaagaacac 240
aaaagtacat gggttaaact agacaagtgc aggtacttga caatgaccat ggaatgagca 300
tgaggccaat gcctggcatt gttggtctca tatcttctag ttcaaaggaa aagaagaagc 360
aagcaccagt gaaaccatct gatgccaaaa gaactcgtag ggatcgcacg gagatggaaa 420
acgttatatt caagc 435

<210> 34419

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-C6

<400> 34419

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aaagaaaaat ataaaaataa gtgaatgatc tataaatata tttataaata tattaattta 120
tctttttttt atcctttttt atcttatttt ataatttttc tattttaagt taattcttcc 180
tttttttttc acacttttcc tttataaaaa ttattttctt attctatttt aatttatatt 240
ctttaaatat ctcatTTTTT caatctttat tctatacaat tttttctact ttt 293

<210> 34420

<211> 417

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-006-Q1-K1-C7

<400> 34420

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ggcgaccgcg agcagcggat ctacctctgg ttcgacccca ccaaggagta ccactcctac 120
 tccgtcctct ggaacctcta catgatcgcg ttcttcgtgg acgacgtgcc gatccgggtg 180
 ttcaagaaca cgagcgccga cctgggctg cggtaccgt tcagccagcc gatgaagctc 240
 tactccagcc tgtggaacgc cgacgactgg gcgaccgcg gcgggcgca gaagacggac 300
 tggttcaacg cgcccttcgt cgctcctac cgcggttcc acgtcgacgg ctgcgaggcc 360
 tncgcgagg cgcgcttctg cgccaccag ggcgcgcgt ggtgggaccc agccgag 417

<210> 34421

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-C9

<400> 34421

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 gagcgatcgc ttcccacagc cttatgcaaa cgagcaagca gcccggtttg ctaatggtgg 120
 tgcataccct ccggacctta gtctcatcac aaaggcaagg cacaatggtc agaactatgt 180
 ttctgctctt cttactggat atcatgatcc acctgctggt gttcagattc gtgagggctc 240
 gcactacaat ccctacttcc ctggtggtgc catagccatg ccgaagatgc ttaatgatgg 300
 agctgttgag tatgaagatg gtacacctgc aactgaagcc cagatgggta aggatgtcgt 360
 atcattcctt tcgtgggcag cttgacctga gatggaagag agaaagctga tgggagtga 420
 atggatcttt ctactatcac tagcgcttc 449

<210> 34422

<211> 422

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-006-Q1-K1-D1

<400> 34422

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 gcttgcaaca aatcctaagc gtgcagcact gttttatgat caatctttgt cgggtgaaga 120
 tatttatgaa ccgttcttaa gggtgttatg gaaaggcaac tggtttgtag aagaaaaaag 180

ttgtaagata ttgactgtta taattagtgc acgaccaaag cttcagaatg gcacacttcc 240
 aaatggagat gcttcgaatt cgaagagcaa gcttacttca acacacgatg tattgagagg 300
 tttggttgat tggtctgtt cacagctgag gaatcctaca cacccgagct gctctattcc 360
 tacttctatc cattgnetct ccactttgct aagagaacca tatgttatga cattatttgt 420
 tc 422

<210> 34423
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-D3

<400> 34423

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 gagttgtgtg tacggcagta acggcacgag caaatattta tgttgctcta cctcatatgc 180
 ttaatgtgta attcagtaaa tatccattaa tacagaccat aatggaatta ctagaaactt 240
 atattctcat attgtgctat atttatattg atgttttcaa tggttattac actttttata 300
 gaactttggg tagaggagct catttgccat tgttccctaa tatgcagagt aaattgtcga 360
 gagccatttg agctaatttt tagtcaacca cctgttcgag ttagctgttt cttc 414

<210> 34424
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-D5

<400> 34424

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 gtcctctgcc cgctgcagat catggaggag gaagcatggc aggagtgtct gcatgggtcc 120
 tgagagtcgc gtgagcagcg aagcagttca cggatggttg gatggagggc aatgaccagc 180
 tgctgagctg ctgctgctcc tcttggtcga ccatcagttt gtatttgtcc atgcctcgtg 240
 tagccggccg tcttcttgcc ctggcttgct cagttccgga aggcgggcaa gcccggtgag 300

gcgtggacag agaccggcaa gtcagagatc ggcaatagt agctccagca ggagcctact 360
 tgtactcctt atttaccogt ttttaagggtc cctttctcgt gctgttcctc gtcttccttt 420
 cgttcttc 428

<210> 34425
 <211> 340
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-D6

<400> 34425

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 aggcaatgca atgcagctct tgtttccttc ttcccgtgaa gaaaccgtac tagctgtagc 180
 tgctgaacgt ttgagtcctt ctgctgccac ccttatctcc attgtgccgt ctaacctcct 240
 tgcttcccct gtgtgaatct gtacggattt tcgtgttctg aacactgatt gcagttgaat 300
 ccagtttgta gttctatttg ttcaaaaaaa aaaaatattt 340

<210> 34426
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-D9

<400> 34426

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 gtaccacaag ccggtatgga gaaggcacac ggctgcact gatgactccc cacacgaagg 180
 tccttctaca gacgattccc catcgtggca gtgctccacc attcgatcct gaaaggatac 240
 tgagctcact gtctacggtg ctgaactctg tcgtcgtgt taactacagg catgtgcttg 300
 tccacatgaa gagccattca tacaggctta cgcagcgtat taccatgggc acaactcttc 360
 tcgttctcag aatcattctg cacttatcgc atgcgatccc actcaaca 408

<210> 34427
 <211> 331
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-006-Q1-K1-E1

 <400> 34427

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaatgggctt cctatttttaa 180
 aaatccaaat ttttattcac cttttttattc atttataatt ttttataatg attccccaaa 240
 ttaatttaat atgtacttta ttattaaaac tttttttctg aaaaaaccct tccttaccca 300
 attataatat ttttcaaaaa attctttttt t 331

<210> 34428
 <211> 399
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-006-Q1-K1-E3

 <400> 34428

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 ccgtcccttg cgggtgccaaa ggggcggaga accagggggc tcgtggtgag ggccgccacg 180
 gtcgtgtcac ctaagtatac atccataaaa ccattgggag acagagtact tgtgaagatc 240
 aagacctctg aggctaaatc tgatggaggg attttacttc cagtatcagt tcagacaaga 300
 ccacaaggag gggaaattgt tgcggttga gaaggagaa gttttggaag taaccgcatt 360
 gagatcagtg ttccggttgg tgcacaagtt gtctactcg 399

<210> 34429
 <211> 436
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-006-Q1-K1-E4

 <400> 34429

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gtgggtgcag cctacacaaa tctggagttt gaacacacga caggtgatat gcttatcttt 120
tgtggatgga ctgttcgctt ggcttttgct gattgaattg gagctgcact tgtagtttgg 180
taacgtttat atacataact atgcggattg cgttacctag aatatgtctt ccagtacctg 240
ggtgacaatg ggctctaaat tttagagtgt tgtagatttg ttttgttgca aatgtggcat 300
ggcatggctt ggcttgacgc ttcgagtact ggtcgttcga gatccttgtg ctgtttgcag 360
ggctgatgcc cgactctcat ctcagcactt ccatcattgc aatgtggtag ttaacttaac 420
ttactctagc tactat 436

<210> 34430
<211> 374
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-006-Q1-K1-C1
<400> 34430

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taactatata tacatctcta tccaattatc acattcatca tataccttta tatatacttc 180
acttttcata gacatcctaa ttgatatatt atttcataca ccaaatacgt catccttata 240
aaaaacacca cagtcaatgt ttaatcttct tcaatacaac aactagttca cttacaacta 300
cattatcctt taaccatatt atttacctat tctaacttta cattctttta ctgtcaatct 360
aaaataataa tcat 374

<210> 34431
<211> 538
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3068-005-Q1-K1-G5
<400> 34431

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ttcanntgtg aatccttcca tgcccggatg tgcatgccct ggaaacctat nnggttgctc 120
cgtgatgggc cgaattgggtt ttatntgann ttttgggatt ggttggtcgt aatatttctc 180
caagaacctt gggccagcta tggaggggtct tcttggcttt tcttttgcaa ctgaggatta 240
tgatgnncta tggcctctgc ccttctctga aatgggtgct acagggaatg atataaatac 300
taacgaatth gcaaaggacc tgcgaaagat attctcatcg atacaggact tggataactga 360
aatcatagt gcaacagcaa ggaccctga tgctacagca gtatctgcta atgttgcct 420
tgatgagagg cagatgaatg ctctatttct tgatctggtc aaggtgagcg agtcttacgg 480
gctgaagttt cctcgggagt ttgctcttct catgaagcag ctgctgtatt ttgatcgc 538

<210> 34432
<211> 139
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-G6

<400> 34432

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gacggtatat tctaataaat ttataagat tattatatat ttatatcaaa atatcttcaa 120
taacattcaa caaataaaa 139

<210> 34433
<211> 62
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-G7

<400> 34433

aaaaaaaa taattaaaaa aattcctaaa tctacaaaaa aaaaaaaaac tcaaaaacaa 60
aa 62

<210> 34434
<211> 465
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-H1

<400> 34434

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gcggtgctgc tgctggcagc ggcggcgacg acctcggagg ccgccatcac ctgcgggcag 180

gtgagctccg ccacgcgcgc ctgcctctcc tacgcccgcg gcacggggtc cggccctcc 240

gcgtcctgct gtagcggcgt caggaacctc aagagcgccg tcagcacctg cgtcgacagg 300

cgcgccgtct gcaactgcct caagaacgcc gtcaggggcg tcagcggcct caacgccggc 360

aacgccgtca gcacctctt caagtgcggc gtcagcatcc cctacaccat cagcaccttc 420

accgactgct ccagggtgaa ctaaaccta gaccacgcgc gacga 465

<210> 34435

<211> 152

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-H11

<400> 34435

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tggaagacgc atgtctgatg ccagcagcca caggaaaaat agttactata gcgtatactt 120

aacttgtagc atttaagaag ctcaaagatg ca 152

<210> 34436

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-H9

<400> 34436

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attagaggct tgactcctcc aaattaaact cggcgcacct ttgctacaat ttcagctcga 180

tgctacatg aactcgtcgc tgctactgct cttacaatct acgccttctt cgctctactc 240

atatctcgat gatcgcatag actgacacaa gacctcactc agatccagca agaaactcca 300

tggaaccaa tgctggtatc tgttctactt tctgtacctg ctaggtttga tacgatacca 360
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aatgactc 428

<210> 34437
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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-A1

<400> 34437

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<210> 34438
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<212> DNA
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<223> Clone ID: LIB3068-006-Q1-K1-A10

<400> 34438

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ttcggcctcc tacggatcca ctctgcacat gcacatagct gaggctaata tcttgtatga 180
aacaccatat gtatcatggg gcttgcagaa ttaactatct acaatgctaa ctgtgtctct 240
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<210> 34439
<211> 451
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-A11

<400> 34439

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aatgccagcc ctgtgcttcc tgaagatcgc acaaaacaaa gcaacctgtc cacaggtgat 180

cgcgagcgtc ggtatcgtaa tactggggcgt cgtcagcgcg gcgctgggga cctactcgtc 240

cgtgaaaaag atcgcagaaa actactaggc actggggaca gtttctctcc gcagaggcta 300

ctaccacacg gttgcacgta cgtccggccg gagctgggga atggtcaggg ttacgtaca 360

cgatctcaaa gttttgctag aactaccgaa attccctgta gattattact ggtatgattc 420

ggaccacaat agtctactta tacaacaaa a 451

<210> 34440

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-A12

<400> 34440

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tcccaaataa taccatctcc taacttcttg aacacagcac tcaacaaagc aacctgcaca 180

aaggtgatcc agaccgacca catccgaata catagcatac tcagcccca gctctaaacc 240

tactcacct caaatatat cgcataacac tactatacac tcgaaacact aatctatccc 300

acaagctact accacactgc taaacttacc tc 332

<210> 34441

<211> 210

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-A2

<400> 34441

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 aaaaaaaata aaaaaaaaaa aaataaaaaa aataaaaaat aaaaaacaaa aatattctaa 180
 ctatataaaa gatcttaatc acttatacta 210

<210> 34442
 <211> 396
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-A4

<400> 34442

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 cacggagctg gagacgcggt accaggactc cgggcccaag tgcccgtgtg gggaggacat 180
 ctcgtcgggg atgcggcggc tcgggtacaa ccggagcgcc aagcgctgca aggagaagtg 240
 ggagaacatc aacaagtact tcaagaaggt gaaggagagc aacaagaagc gccccgagga 300
 ctccaagacc tgcccctact accaccagct cgacgcgctg taccgcagca aggcgctcgc 360
 gtcgctcgtc tccggggccc gtgcagctcc ggcgct 396

<210> 34443
 <211> 243
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-A6

<400> 34443

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 aaaaaaaaaa aaaaaaaatc aactataaaa tacacactaa aaaaaacaa tattagaagt 180
 cataaaagac caaaataaaa tagaaaaaca aacaacatga aaaaaccaac caaggaaaga 240
 aca 243

<210> 34444

<211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-006-Q1-K1-A7

 <400> 34444

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 ttttttagct cactggccat tcgctgggag tttcgggctt aataccgata ttttagcaac 180
 aaatctaata aatctaactg tagtgggttg tgtattgatt gtttttggaa agggagtgtg 240
 tgcgagttgt ctatttcaag aatagattgg atctatccgg ctgcacttta gaatattttt 300
 agtatttcat ttgataaata agaaaagggtg cagcatctcg acgaattact tctgaataac 360
 ttcagaaatc atatggaaga accatagcat ttcgcgattc attggtaaatt tcactttgaa 420
 tctcta 426

<210> 34445
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-006-Q1-K1-A8

 <400> 34445

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 gcgctgttgc tcgtcgccgc cgtgtgcgcg ctggcggcgc cggctgccgc ggtcgtcact 180
 gacggtcttc tcccgaacgg caacttcgag gatggcccgc ccaagtcggc gctggtgaac 240
 ggcacggtgg tgtcgggcgc ccacgccatc ccgcggtggg agacgtccgg ctctgtggag 300
 tacatcgagt cggggcacia gcagggggac atgctgctgg tgggtccgca gggcgcgcac 360
 gcggtgcggc tgggcaacga ggcgtcgatc cggcagcgcc tggccgtggc gcgcggcgcc 420
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<210> 34446
 <211> 342
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-G11

<400> 34446

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tcgttcgtct gacttgggta taatctccaa agactaatct aaccatatag tagctggctc 180
cctacaaaaa ctccctgatg atacctgtag cccacacgag tcctattgcg taatgcccac 240
gattaaaaag ctcagaggcg caacgccatc gacctattct taaacttta atcacatgga 300
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<210> 34447

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-A9

<400> 34447

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taaggctaca ttcaagtgag ctgagtgcga ggattattct tagtaggagc attgctgtca 180
gacagcttgg ttatTTTTTT ttgtgccgtg ttgggtcgct aagagattag tagttgcagt 240
cgtccgagga tggtaggtga attttgttgc cgctgatgag cttgtctact ggggtgttga 300
ccatgg 306

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<210> 34448

<211> 200

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-B2

<400> 34448

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tcgttgaaga gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

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aaaaaaaaa aaaaaaaaaa taacaaaaaa tcaataaata taaatcaaaa aaaactaaat 180
 aaacaaaata caaaataaaaa 200

<210> 34449
 <211> 95
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-B5

<400> 34449

aaaaaaaaa aaaaaaaaaa aaaaaaaaat taaaaaaaaa aaaaaaaaaa aaaaaaggaa 60
 agataaaaaa aaaaaaaaag aaaaaaacta caaac 95

<210> 34450
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-B6

<400> 34450

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 tcatgggcgt cttegccgct ttggctaaag aaaatgccct ggttgagagc aaggccatcg 180
 acatcaaccc ggggcagctc aagtgtgca ccaactgcaa cttctccttc tcggggctct 240
 acacctgcga cgacgtcaaa aaggactgcg acccgtctg caagaagtgc gtcgtcgccg 300
 tgcacgcctc ctactcgggc aacaacaagt tcaggtgcac cgacaccttc ctcggcatgt 360
 gcggcccaa gtgctagatc agagaggaag aacgcgcgct gctgctagct gctatagctt 420
 cgttct 426

<210> 34451
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-C4

<400> 34451

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 tcagtactta caggcgggtga gtttggcctt cccgacttca gggatgcaat ctctgggtgct 180
 ttcaagttct tgaccaagag tgcaaagcca ggcaaggatg ggccgtctac cagcagtcca 240
 catactgctg agttgttcag ccagggtcaat catctcagag aggagctgca aatgttggct 300
 aaatcaaatc atgtttccat tgtcactgtt gatggtagac ctggccctgg tgcatacggc 360
 ataacagctg ttggtattgg aagagctatt ggctatttat tcataagatg gaaggggtgg 420
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<210> 34452
 <211> 174
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-005-Q1-K1-C6
 <400> 34452

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<210> 34453
 <211> 415
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-005-Q1-K1-D11
 <400> 34453

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 cagtcacggc cagtcactta gttagcgctt tgtgctagga ggttgtgacc agtggagctc 240
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 agcttgtaga ggatgtatga gtgaacaggg ccatgctttg aagcgaacaa gttataggca 360

tatgggagct ggggatcatc cgagacagat gccgcttcga gtgtcactgt acttg 415

<210> 34454
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-D5

<400> 34454

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atcagcactg aagagatcgt ttcttgacgc tgccattgcc aaatgtggcg gaaatgaata 120

gaaggggaaga aactgtact ctgcatatgg ttcaaattggg cagtgggggtc tgttcgatag 180

aacgttcggg agagcagact cacatgaagc agatccagat ggaagagtgc ctgactggag 240

caaggcttct gtgcaggata tgaaagatag gttcgtttct tttgggttg 289

<210> 34455
<211> 77
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-D6

<400> 34455

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<210> 34456
<211> 372
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-005-Q1-K1-E1

<400> 34456

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gggcctgctg gaagtgtgc agaaggaggc cggcggcggc aaggcggcgc tggcggccga 120

ggaggtgggtg gcgcggatgc ccgcggcgcc cggcgacccc gtcgccgcgg cggccatggt 180

ggaccgcatg ctccgnetgc tcgccttcta cgacgtcgtc cggtgccaga tggaggaccg 240

ggacggccgg tacgagcgcc gctacttcgg cgcgcccgtc tgcaagtggc tcacccccaa 300
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 gagctggtac ta 372

<210> 34457
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-E11

<400> 34457

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 tgatgcccta tacagcgcta agtcttcttg ctgcgagaca aaaagctata tcacgctcat 240
 acaacatggt ggtacaagat ataacatacg atcattgctc gttcaaatac aacccttaga 300
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<210> 34458
 <211> 456
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-005-Q1-K1-E2

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 gcccggtga ctacgcctcc ccggtgaagc tgaacgggtt cgcgtgcaag gcgaactttt 240
 cggcggacga cttcttcttc gacgggctga ggaacccggg caacaccaac aaccggcgcg 300
 gctccgtggt gacggcggcc aacgtggaga agttcccggg cgtgaacacg ctgggcgtct 360
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456

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<211> 488
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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acatctac 488

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<211> 465
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 34460

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ccatcttgcg atttcacagt tatcatgctg gaaccagctg agttgtcttg tcttccctcg 240
tgcaaccata tgtttgatcg tgggtccaaa aagaaaagaa aagatggctc gatggtttat 300
cccgcactcg ccgattcaag cgactactnt agctatcaaa agcaaaacca cggtagtaga 360

gatagccttg gaactgcaca tttctattaa ctggacatgt ataaatagtt ctcgtgagcg 420
cacaccatgt aatccgtcaa attcatccat gtggtgtgac atttt 465

<210> 34461
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-F10

<400> 34461

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tccttcagcg ccacctccat caaggcctac gtggccgagt tcatcgccac cctcctcttc 180
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gccaccgtgg cgtgccttgc tctcgggttc gtc 453

<210> 34462
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-F11

<400> 34462

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gcgttttctg gtactcatga taagtgtgca tcttgccata aaacagtgt cccgctggag 180
aagttaactc tggaaggcga gtcctaccac aagagctgct tcaagtgtc gcacgggggc 240
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ttctcgcac tggtcatgga taatgggagc tacatccaca tgatgaataa gagcccgctc 360
caatatacac ttccggacat ggccgtcgac tagcaaccgc cggaaccggc gccac 415

<210> 34463
 <211> 372
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-F12

<400> 34463

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 catcataata aggggaagac aaagcaagct gtctgcttat ttgtctatgt ttggtatctc 240
 aagtcctgcg gactgtttct gttggcacia gagggaaatta atgtgttcac agacctgtaa 300
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<210> 34464
 <211> 469
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-F4

<400> 34464

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 cgtcggaacg tgatggagat gagtcgaggc cgatgccgtg cgtgactgct gtctccctca 420
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<210> 34465
 <211> 392
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-F9

<400> 34465

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ggtggtgagg aagggagcct ccatgaagct ctgctatggt ctagcgccgg gcagaatacc 120

ctttcaaggc tgcactacgg tgaccagatt gccaccgtca gcctatcatc ggggtcaagtt 180

tacaggttca gcatggattt gaagtgcttg aagacttggc ccctgtgata gcacacattt 240

gctgaaatga aagataccat tgattgtgca caaattcatg aaaacttctg gctggcaaga 300

aaataatcga tttcatacat caatcataac acgtatcata tttcttaaaa cacaagcatg 360

tgcagctcat tcacctttac gaccatatca ac 392

<210> 34466

<211> 326

<212> DNA

<213> Zea mays

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cgccttggtt ggcatgagcg ccaacgccgc caccttcacc atcaccaaca actgcggggtt 180

caccgtgtgg cccgcggcca ccccggtggg cgggggcacg cagctgatac ccggcggggac 240

gtggaccgtc aacgtgccgg ccggcaccaa gctcgccgc gtgtggggcc gtaccggctt 300

gctcttcaac ggcaacagcg ggagct 326

<210> 34467

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-G10

<400> 34467

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taccacatct ttatcaatcc actaccaact atactcgtcc aactcgcaca tcttcatttc 180
ctacttctac catacccacc atctaaacaa acatctacta tctcataaca catactctga 240
ctctctaaca acacactatc tcttcatcat ctatacaatc acacttacac ttatcctcta 300
tctaacttcc tctaataacc cacacttcct ttcactacta tctctttctc atcattaacc 360
tcctcattgc tcatcactca cctctctttt actctc 396

<210> 34468
<211> 138
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-A3

<400> 34468

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tggcgttccg ttaagcat 138

<210> 34469
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-A4

<400> 34469

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actagaagca acatacaaac aatcagctga ctctgttgca gttgaatcaa tgattgcaaa 120
gttgacagag aacgaaggtc cttgcttaaa aggtaaaggc agggccagtg atgcagcatg 180
aatcgcggtt ctgacctgga gatcgttgct acatatgtca agagatggga agtacttctg 240
catcaagctt gccttgtata tgcttattgc tgtgacaatt agaacgatat ttaccgatat 300
tggccattca ctatca 316

<210> 34470
<211> 316
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-A5

<400> 34470

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caaagtataa aaaaaacaaaa ataaaaaaat taatatctaa caaaaattat atttaaatta 120

ccttctatct tctaaattct attatataca agctctttct cttaaatttt tctactttta 180

ttccctttta ctttcttate ctttcttttt tattcctgtc tttcttaatc cttttttattc 240

tttggttttt tcatatccct ttttttttaa aaactttttt tatcccaaaa tatttccctt 300

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<210> 34471

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-A6

<400> 34471

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aggggctcgc agacattgcc atccaagctt tctccacgac atcaactgac agcaccaaca 120

gagtggccag agcatgagca cgagcgcccc cagctacact cccacagctg cagccccgtcg 180

tcgcgtcgtc accacgccac agcggacact gaccctgtca ccaaagtgtg gtgacatata 240

cgagcggtac tgctatctcc aaaacgtcaa gtagttagaa tgtagattat ccattcttaa 300

tatgatattc tacaatctac atttctgtaa acaatgatta ttttaccttt tcttggtgat 360

tgtgagcata actgtagagc tcaaagagct tctctggatc tgtcatgtgg gttatggttt 420

acatttgcac accatgtggg 440

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<211> 472

<212> DNA

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<400> 34472

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 gtggccgcgg tgctgctgct ggcagcggcg gcgacgacct cggaggccgc catcacctgc 180
 gggcaggtga gctccgccat cgcgccctgc ctctcctacg cccgcggcac ggggtccggc 240
 ccctccgcgt cctgctgtag cggcgtcagg aacctcaaga gcgccgccag caccgccgcc 300
 gacaggcgcg ccgcctgcaa ctgcctcaag aacgccgcca ggggcgtcag cggcctcaac 360
 gccggcaacg ccgtcagcat cccctccaag tgcggcgctca gcatccccta caccatcagc 420
 accttcaccg actgctccag ggtgaactaa aacctagacc acgcgcgacg ac 472

<210> 34473
 <211> 389
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-A8

<400> 34473

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 tgtgttccgt ctcttcgccg atggttcgg ccaagttcgg tgctgcccag cagggtggaga 180
 accgaggcgc gctgtccaaa aggtcacgta acgacgtgtc tgtaaggag ggggactgga 240
 attgtcctca gtgtggtaat gtcaacttca gttttagaaa tgtttgcaac cgtggagcct 300
 gtggtgcacc ccgtccatca ccgagtccaa gtccaagatt gatgccagga cctcctgctt 360
 ctggatatga ccggtcacct ctattttac 389

<210> 34474
 <211> 365
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-A9

<400> 34474

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aaggagatcc tcaagatcgt caaggagaac ttcgacttca ggcccgggat gatcaccatc 180
aaccttgacc tcaagaaggc cggaacagg ttcacaaaga ccgccgcata cggtcacttt 240
ggccgtgacg acgccgactt tacctgggaa gtggtcaagc ccctaaagaa ggcattcgct 300
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ctgca 365

<210> 34475
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-B10

<400> 34475

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gcgagatcga aggacagcat ctcagcgccg tcgacatcgt cggtcactac agcagcgttt 180
gggctcagtc cgagagcttc cccgagttaa agcctgagga ggttgctggt atcataaagg 240
actttgatga acctggtact cttgcaccaa ctggtctttt cgttgagggt acaaagtaca 300
tggtgatcca aggtgaacct ggagttgtca tccgaggaaa gaatggcact gggggcatta 360
ctatcaagaa aaccggcatg tccttgatta ttggtgtcta cgacgagcca atgactccaa 420
ggcaatgcat catggtggt 439

<210> 34476
<211> 306
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-B2

<400> 34476

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tggaattctc gctgagcggc cctacacctt tatcgtcgtc ggcttcgccg acgttgctgt 120
gttccgtctt ttcgaccatg gcttctgcca agatcagtgc tgcccagcaa gtggagaacc 180
gaagcgcgct ttccaaaagg tcacgtaacc acctttctgt aatggaagg gactggaaat 240

tgctcaatg tggtaatgtc aacttcaatt ttagaaatgt ttgaaaccgt ggaacctgtt 300
gtgcac 306

<210> 34477
<211> 62
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-B3

<400> 34477

accagctcg ctggtcccat ctgatcatgt cgtgcaccta gtagcgacct gctctatcat 60
ca 62

<210> 34478
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-B4

<400> 34478

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tgctgtgttc cgtctcttcg ccgatggctt cggccaagat ctgtgctgcc cagcaggtgg 180
agaaccgagg cgcgctgtcc aaaagggcac gtaacgacgt gtctgtaagg gagggggact 240
ggaattgtcc tcagtgtggt aatgtcaact tcagttttat gaaatgtttg caaccgtgga 300
agccttgtgt gcaccccgct catcaccgag tccaagtcca ataattgatgc caggaccttc 360
tgcttctgga tatgaccggg cacctttatt tta 393

<210> 34479
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-B5

<400> 34479

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cgaagatgcg cgcgagctg gggctccccg acgtcggctg ctgcgactgc tgcgtccact 120
tctgctgcga gccgtgcgag ctctgccagc agtacagga gctcagggca cgcggcttgg 180
accccgcgct cggtgggac gtcaacgccc agaaggccgg cgccggcatg atgtaccgc 240
cggcggcgca ggggatgggc cgctaattac gctacgacca gctccatcgg taaactgata 300
tgtgttgtgt tgtgttgtgt cagccagatc atcggtaaac tgatatgtga tataatgtca 360
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c 421

<210> 34480
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-B6

<400> 34480

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cggcgccggc gcgcagcagg gcgtgtggag catcatcacc cggcccatgt tccagagcat 120
gctgagccac cgcggcgaca ggggtgcca gggcgcttc tacacctacg acgccttcat 180
cgaggccgcc agcaagttcc ccggcttcgg caccaccggc gacgagcaga cggcacgcg 240
ggagctcgtc gccttcttcg ggcagacgtc ccacgaaacc accggtggat gggcgactgc 300
tgcgatgga ccgtttgact ggggatactg acggctgaag gaacagaaac agacggacct 360
accctactat ggacgaggac ccatacagct aactgatgag gacaactaca ggctcgccgg 420
gcaagcgctg aacctgaacc tgggtggcgca cccggacct 459

<210> 34481
<211> 133
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-B7

<400> 34481

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ggcggggcac tttttagact gcgccgtgcg cccgagcccg gaacgctctc agatcgtgga 120

gctgctgact ttt

133

<210> 34482
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-B8

<400> 34482

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cagggcacca acaatggccg tcgcctactc gtccctcggtc cttctgctgc tccctggccgt 120
cgacttggct ggcatgagcg ccaacgccga caccttcacc atcaccaaca actgcggggtt 180
caccgtgtgg cccgcggcca ccccggtggg cgggggcacg cagctgaacc cgggcgggac 240
gtggaccgtc aacgtgcccg ccggca 266

<210> 34483
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-B9

<400> 34483

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ggatcgtcgg agaggaatcg caaaaagggc cgtctcatcc gagttaagga agccatggag 120
cacaaggagg ctgggtgccca ggccccctat ggacccatcc tctgcattaa taactgttgc 180
ttcttctgca gcgcggcgac catgaacatg tgctctaagt gccacaagga gatgattacg 240
aagcatgatc aggccaagct ggctgccttc tgtatcgaca gcatcgtgaa cggcaaccac 300
gccgtcatgg agcccgttgg tgcttgacgc aaca 334

<210> 34484
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-C10

<400> 34484

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caactgacaa tgactactgt ccagatcggc atcacctggc cgcaccttag atccaacatg 180
aggcgctgcg tctcgtattc cgaccacac aatatgtaaa atatccttaa actgatggat 240
ctttgactag cacctggaaa gctccactta tactacagct ttcaggtgat cagacagcgt 300
ctgactaaag aacacctcca caggcgtttg ctttctca 338

<210> 34485
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-C12

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tttttctacc cacataattc ataacataac cctaaaaata ttattatttc acttaccctc 180
ataaactccc acacatccta cacctcataa cctacttcac aaactatcac tataatccct 240
cttcacactt tcttcttctc cccctctatt aaaccaacct cattcccttt catatcctac 300
tctttatatt atacacctac attacctaatt ctcaacttat tcattcatt 349

<210> 34486
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-A12

<400> 34486
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gaaagagaaa atgatggaac ttgagcttgc tgatctgaga cttcaacaac atcaagagaa 180
ggctgctcac gaacataccc aaatgcaatt gtatgccgag caagtttctc agcttatgac 240
tactgagaag aacctgcggt tgcaactagc ttcggatgga gaaagatttc agcactttca 300

ggatgccctg tcaaaaagca atgaagtctt tgaaacttac aagcaggaga tggaaaaaat 360
gattttggtg ataaaaaatc ttaagaagga caatgaattt ctgaaaggaa aatgtgagaa 420
ctc 423

<210> 34487
<211> 333
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-004-Q1-K1-B7

<400> 34487

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tgatcctccg tctgatggag gacccggaca agcgcgacca ggttcggcgg gagcatgtct 180
acaagatgaa ggagcgggtgc gagcgcacta aggcggcgtg gagcctccct ctgcgcccct 240
acggcttctg gaccttcgac cgcttcaact cgcagctctc ctgggatccc caaatcaacc 300
aggccgccgg ccgtcgggac ccctacgacg acc 333

<210> 34488
<211> 138
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-004-Q1-K1-B9

<400> 34488

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gatctctcct ccatcacaca atccattcta tcttccatca cccatcctac aaacatccca 120
actcaaattt cacctcac 138

<210> 34489
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-004-Q1-K1-C11

<400> 34489

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ctactgccga acgtctggtg acaagattgt ccggtgcttat gctaaggatc actatttcga 120
tggtgtcaca aatgttgtgg gtttggtgctg tgctgtcctt ggtgatagat tctactggtg 180
gattgaccca attggtgcaa ttgttcttgc agtgtacacg atttcaactg gtctggaaca 240
gtgtgggaaa atgcagtatc gc 262

<210> 34490
<211> 301
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3068-004-Q1-K1-C12

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ctggtctcaa tccagccgct cgtgtgtgcc caactgcctt ttcttcagcc aattctggta 180
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c 301

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<211> 120
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3068-004-Q1-K1-C7

<400> 34491
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ctcttaccta aattcaattc attttttcta ctttttataa cctaaaaact tcaaaaaccc 120

<210> 34492
<211> 278
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-004-Q1-K1-C8

<400> 34492

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tacaaaataa taaatatttt attatgttac ctaaattaaa ttttttaaac atctttttac 180
aacataatta aataaaaaaaaa cctttgtgtt cccaattta atctctttta aaaaaatacc 240
cttttcgcta acttatttaa tatctaaaaa gcccacac 278

<210> 34493

<211> 173

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-004-Q1-K1-C9

<400> 34493

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taattagatg gattgtgtgt aaaagatgag gaccgatgtg aactgaagta gtttctttgt 120
cacctcttcg ggtgctgcag caatccaagt ttttgtttgt tattgatgac cca 173

<210> 34494

<211> 182

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-004-Q1-K1-D5

<400> 34494

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gatcgggttc acctccgacg acgtggggct cgacgccgac cgctgcaagg tgctggtgaa 180
ca 182

<210> 34495

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-004-Q1-K1-D7

<400> 34495

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ctgcgcctgc gccttcgccg tgagcttcta cgtgccggcc aagaaccagg cggacccgcc 120

gccggccgag ggcttgccg tggaccgctg ggccggggcc aggtacgcgg ccgtgcgccg 180

cttcgggggc ttcgtggcgg acgccgacgt cggggagcag gcggcgcgcc tcgaggccag 240

cctccagggc acccggtggg ccgccgccgt caacgacgcg cgcagggccg acccggcctt 300

gccctacacc gtcgcgcagt acaac 325

<210> 34496

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-004-Q1-K1-D8

<400> 34496

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cggggggact ctcgatcgg ggacacaggg taccaggatt gcttctgagg gtctgaagca 120

cagagtcttt gaggtttgcc tagctgatct tcagggcgac gaggatcaag cttacaggaa 180

aatcaggctc cgtgctgaag atgtgcaggg caggaatgtg ctcacaaact tttggggcat 240

gaattttacc actgataaac tcagatccct agtgaagaag tggcagacat taatcgaagc 300

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caagaggcgc ccaaac 376

<210> 34497

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-004-Q1-K1-D9

<400> 34497

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ctactgcgac acctgccgcg ccgggttcgt gaccaatgtc accgagtaca tcgcggggcg 300
caaggtgagg ctggagtgca agcacttcgg caccggcaag ctcgagcgct ccatcgacgg 360
ggtgaccgac gcgaacggca cgtacacgat cgagct 396

<210> 34498
<211> 165
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-004-Q1-K1-E1

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aacagtgatg agcaggagca gatcatgatt gcccgaaacc tcctcaacta tcgcttgaag 120
gagaagatgg cgatggccaa ttatcctcat gtttcacat tcct 165

<210> 34499
<211> 257
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-004-Q1-K1-E12

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ttcaaccac tttcacaac tattgagcac caacattttt gatggcaata tatacacact 180
tgtatttaca acttcaacgc ttgaatctga agaatacaca ctcaaaaacca ccattcaatt 240
taacaaataa ccaccgc 257

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<211> 192
<212> DNA
<213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-004-Q1-K1-E2

<400> 34500

atgaaatgct taagttttgt gcatctaaca aaatatatcc aaagatcaan gtcattgaaa 60
 ttacactag gagcgaggct ctctagaggc ctgtaaactg tgatgtgaaa taccgctttg 120
 taatttcaga aataatctat tacctttgat gcgtccagcc actgaacgag acatatacat 180
 tgtatgttac tt 192

<210> 34501
 <211> 158
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-004-Q1-K1-E6

<400> 34501

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 cacttgctca ctggggtctt gatttttnatt ttgaaaagtt ctgttcaatc tccttgctcaa 120
 atttgaatgt gtatgcgtgc ttggtctgtg gaaaatat 158

<210> 34502
 <211> 329
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-004-Q1-K1-E7

<400> 34502

cgctcatccg cccgcccccg cccgcgtaga aggaacccta gcctagcctt gtcgccggcg 60
 gtcgccggcg cgactgcgac gatnatngac tgcgctggag gccgagacce cgtggaggac 120
 ttctctctcg gcggcgccgg cgccgggtac gacggagatc tcgtcgccgt cttctgcgac 180
 ggcggggccg gcgacggagg acttgggatt gaaggtatcc atggagatgc ttgtggattt 240
 gagcaatcta atttggggaa aaagggtaga gatgaaccat gttcatctgg cccaacatcc 300
 aaagcttgtc gtgaaaaaat gaagaagga 329

<210> 34503
 <211> 146
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-004-Q1-K1-B3

 <400> 34503

 cccacgcgtc cgaaggacca agggatcacc gtggttgctg gtggtgaagc tagaggggttc 60
 atttttggtg ctggtatggc tttatccatt ggcgcaaaat ttgtgccttt gaggaagccg 120
 aagaagttgc caggcgaggt gatctc 146

<210> 34504
 <211> 338
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-004-Q1-K1-E9

 <400> 34504

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 cgggagcaga aacagaagag gcagccatgg ccgtgatgga gaagctcaag atcttcgttg 120
 tgaaggagcc tggtgtcgca gcttctcgtc tcacgcgcgg attcgggtctc tttcttccag 180
 cagttgtccg gccaatcctg gattcatggg agaccgcaga aaaagttcct ccaccacctc 240
 taaatgatgt gggtgcgggt gtcaccggca agaaaaagta gtgaacttgc attgggtttct 300
 catgtcgatg ctgtcccaca ttttcttccc catgtttt 338

<210> 34505
 <211> 143
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-004-Q1-K1-F3

 <400> 34505

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 catgatcaag ggcgactggt tttctattga taactctctc atgatcgta tttctttatc 120
 tgggatgacg gcaatgatta tgc 143

<210> 34506
 <211> 224
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-004-Q1-K1-F9

 <400> 34506

 aaaaaaaaaa aattaaaaaaaa acgattttatt atataaaaaaa aaaaaaaaaa aaaaattgta 60
 aattttaaaaa aaaaaaaaaa caaaacattc caataaataa aacaatataa aatatctctt 120
 aaaaataaaaa aaaatataact ttctcttttcc ccttctataa ttccctattt tcttttcccc 180
 tttttttccc ccctctcatc tctcttttct tccctctttc tcta 224

<210> 34507
 <211> 356
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-004-Q1-K1-G9

 <400> 34507

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 ctcttctggt tgagctcatt ggaggacacc ttcggtatct ttttaacaaat tttccccccc 120
 aatcaaaactc cccaccttac aatttcttct ctctgatct tcccatctag tcctttcctt 180
 ttatcctaaa tgattttctt taccctcatt tctacccttt ttttatttta aatctctttt 240
 ataatatattt tttccacttt cttccttata tttcctatta attctacaat cttttatctc 300
 atattcaata ttctattttc tttcttcttt cctttctttt ttttttttct tctttt 356

<210> 34508
 <211> 335
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-004-Q1-K1-H9

 <400> 34508

 cgtacgccac caccaccgcc tgaccgcccc gacgcttctc ccctctggcg ctatggccca 60
 aactggtgtg ctcaagggtg gcgtgtgctg tgaggactgt gttggagctg tcaagcgggt 120

cctgggcaag atggaaggcg ttgagtccta cgacgtagac atcatggaac agaaggtcac 180
 cgtgaaaggc aatgtgacac ctgacgccgt cctgcaaact gtttccaaga ctggcaagaa 240
 gacttcgttc tgggaggctg aagccgtgac aagtgaatcc tccacacctt ccggtgccac 300
 cgcctgacaa gttccatgat cacgaagttc cccgc 335

<210> 34509
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-A1

<400> 34509

cccacgcgtc cggcaggctc tagcaacacc tcgatggctc gatccatgtc gtgtcgtcgt 60
 cgctgttgcc caccctccta tttctccatt cgttgctccg ctagttacag tggtcgcctc 120
 ttaggtgtta cagtaaaaaa aatattattg gtggtgatat ggttatttat tgattcgttg 180
 gggtaattaa taagaaccct caagcttggg gtcttcacgg agaggttgaa tcgatgcggg 240
 gaaaacggca cgtgaagggt aataagagat cgatcgagcg gttaaagaga acaaggagac 300
 agagacaggt ggcagatgac gcagtggatg tttttcactg ttactgcggg aatttttgtg 360
 catgcggtta ctactgtaca gtggggtagt ttggtacaag agaggagtaa aaaaatggaa 420
 agagaggact 430

<210> 34510
 <211> 377
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-005-Q1-K1-A11

<400> 34510

gncgtttatg ttccacaccg agaaatttct ggttctcgtc tgagcctcta tcttagggac 60
 gaccttngcg ttatctttga acgggatgtg ctcgncccag cgcaaagcgt cccacctga 120
 ccaatgtctt ctgcncctcg gatcggnct cggcgaggcc cgggcccttg gagcccaaaa 180
 ggaaggggcy gtgctcccga cttacgactc cacggaagta tgtcaaataa cacttcaaaa 240
 gtagttggta tttcactttg tcgcccggaa ggctctccac ttatctctac ancctctcaa 300

agtcatatcc acnacaagtc ggactatgag tcaagcctca acaaggggtgc ttctttcctc 360
cgctgattcc cgccaag 377

<210> 34511
<211> 305
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-F5

<400> 34511

acgtccactc gtccgattta ttatatacaca aacattgatg ctatcataat gatttaggtt 60
actgtgactc ttgacgtatt tgttgttact tttatggcaa ccaatgaggc atctacttat 120
gacagactgg agtatttttg ttagctcaaa aagactgggtt tctgggtgaca catttatttt 180
cttgagtgtg acatcattac atgttaaagt tgtcttgtag gttacattta tttcctggct 240
ttactaaatt tttggatcaa ccttctaact gttcttcacg taattgatgt gagaacaaat 300
agctg 305

<210> 34512
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-F6

<400> 34512

aaaaaaaaa aaaaaaaaaa aattaaaaat taaaaaaaaa aaaaaaaaaa aaaaggaaaa 60
ggaaaaaata aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaa aaaaagggcc gcccttttta aagggtccaa ttttcctacc ctttcctttc 180
aatctaatac cttttttttt attgccccca aatttaattc ctttgccctt ttttttaaaa 240
cttttaacct gaaaaaccct ttcctttccc caactaatc ctttttaata aaatcccctt 300
ttccccattt ggcttattat cctaaaagc 329

<210> 34513
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-F7

<400> 34513

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gctggaaact tatcaagggtg gcctgaagca tgacccgaaa aaccaggagt tacttgatgg 120
tgtaaggagg tgtgttgaac agatcaacaa ggcgagcata ggctaactca gtgaggagga 180
actgaaagag agacagaaca tagccatgca agaccctgag atccagaaca tactgactga 240
tccgatcatg catcaagttt tgactgatct gcatgagaac ccttgggctg tgcaggcgca 300
ccttaataac cccgtagtga tgcattat 328

<210> 34514

<211> 341

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-003-Q1-K1-F8

<400> 34514

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atgctctgag cggggtcgaa gcccagagtg aaacctttct ggtggatggc tttctgaagc 120
gatactgat cgtgcaatat cnngttcgtc tgactttggg tatagtgggc gaaaggaact 180
aatcgaatcc atctagtatg ctggttcctt tccgaagttt tctcctcagg gatagtctgg 240
agctcctaca ctgagttcta ttcgggtata agcccaatga tttagaggca ttcgggggtgc 300
gcaaacgctc cttcgacctt atttcttcaa actttaaaat a 341

<210> 34515

<211> 117

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-G11

<400> 34515

ggtcaccctt cccctcggcc tcaagagctc tgcggttgcc gcggccaagg gcgtccgtgg 60
agaagcgga gcaggtggcg gcgatggaag agcaaggcgg ccaggcggcg ctcggat 117

<210> 34516
 <211> 74
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-G3

<400> 34516

cccacgcgtc cgccccacgcg tccgcccacg cgtccgtcca cgcgtccgcc cagcgcgccg 60

ggtctagatc gcga 74

<210> 34517
 <211> 348
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-G6

<400> 34517

cggacgcgtg ggcttcaaga gaaagaagac atgaatctag gtgccccttc aatgtgaaga 60

cgcttctaaa gagattggggg acaagaaagg tggactatc gaaggggatc atgtcaaagg 120

aatcagaagg agcagcaggc tggaatctaa cgacgagatg aagattgatg ataaggctac 180

aacgagagca atggctaagg atgcgtttat taacaaaggt atatcttcta accctttttc 240

tgttctcaat actgataatt atgttcttat ggatgttgct ttaaagttgg aagtagaatt 300

aggttcctct tttaatgaag ctgtggaaaa ttagaaatg ataaaatc 348

<210> 34518
 <211> 364
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-G8

<400> 34518

gattcaaggt actggaacaa ccctgaagat ttagcccag agaggtttca gaataacaat 60

gtcgactaca aagggaccga ttttgagttc acccccttcg gtgctggtcg tcgacgctgc 120

cctgcaatca tgtttgccac ttctactcta gagattgcat tggcaaacct tctctaccac 180

ttcgactggg ctcttcggga tggagtgagc ccaaagatgg tggaaatgtc tgagcaatac 240

gggatgggtg tcaccaaaaa gttagacctg catttgagag ccatcccata tgtatactct 300
 actatggcat aggtatgggg ggtgggttaa gctacctgca ccttaacttg aggtcctttt 360
 gatg 364

<210> 34519
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-G9

<400> 34519

cagctgtaag caagaagcta gatgagttac cttccacatt taaagaatca aaccaaacca 60
 tgggtggttc agaagctggt gcaggcaagt tggaggctcc tgaaattggt tgtcaggtaa 120
 ctggttcctc tccagtagat gacaaagcta gagaatcttc aggatcacca gtgaaggata 180
 ctctgatgc tggagtcaga ttgcaaggat cagataactc agctatggca ttttctgcac 240
 tcccacttga agcacctgtg acaagcagca gagcagagcc tgtggcatgt gatggcagtg 300
 acatgaaaga tgatattcca ctagacgctg aaagcaacgg gaaccttgaa gagcgatgaa 360
 actgcttcct tttggaacat ggatgcatta catcaagtat tgggttaa 407

<210> 34520
 <211> 149
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-H1

<400> 34520

cccacgcgtc cgcccacgcg tccgcggaact cgtgggaaaa aaaaaaaaaa aaaaataaaa 60
 gggaaaaaga aaaaaaaaaa aaaaataaaa aaaaaataa aaaaaaaaaa aaataaaaaa 120
 agacatccat tttaggggat ccattttta 149

<210> 34521
 <211> 329
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-H11

<400> 34521

ttcttgagca agcaggcgtc ggtgttcttc tgtcgaacct cggccttaac gcttcttcgg 60

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tgaggctcat ggatatgtcc ggaaggaggt ttctcctcct cgcaacgata ccagtcctaa 180

tagtcgcgct actcgtcctg gtgggtgtcca acatcgtgga cgtggggggac gtggcgcacg 240

cggcgtcttc cacggccagc gtcatagtct acttctgctt cttcgtcatg gtgttcgggc 300

ccgtcccaaa catcctctgc gcagagatc 329

<210> 34522

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-H12

<400> 34522

gcgcttccaa cggtagctaa ctccaaggca agcatccttg gtccattgtt ggcctcgctc 60

atcgatcagc tgtgtctcag caggaggcgt tgcggccatg gcggcttcga agcccatctt 120

gtatagcgcg tggatcagct cctgtctcct ccgagtccgg atcgccctca acctcaaagg 180

tgtggattat gagtacaggg ctgtgacaag gaacgatcta gattacgaaa agatcaatcc 240

aatcaagtat gttccagcat tggttgatgg ggattttgtt gtttctgact ccctggcaat 300

catattgtat cttgaagata aata 324

<210> 34523

<211> 370

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-003-Q1-K1-H3

<400> 34523

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gcaagcacac gcacggccga ggcataatggg agttgaccaa agatgacgcg accttcgacg 120

ccctagtcaa cgacggggtg gcttccgaca gccagctcat cgtcgacgtt gccatcaagc 180

agagcgcaga ggtcttccag gggataagct cgctcgtcga cgtcggtggg ggcatacggtg 240

cggcggccca agccatctca aaggcggtcc cgcacgtcaa gtgtagcgtg ctggaccttg 300
 cccacgtcgt tgcgaaggct ccaactcaca cggacgtgca atttatcgct ggcgacatng 360
 ttgagagcat 370

<210> 34524
 <211> 400
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-003-Q1-K1-H5

<400> 34524

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 caggcccagag tgactagccc ggctaataa ggaagtggcg cttgatgtgg aggtgctgct 120
 ggtgtagtcg tactcatggt gcaggtgatg tcctcatcaa taaccttggg aaagccaagc 180
 cccaatccac ttttattttc ttaattcttt ttctttttcg cttacgctta cccttacaca 240
 gatgacttct cacgagtcct cggaaggagg gaacgcacat tcccacacgg acggacttgc 300
 gcaagaggggt tttccctgca ttntgtggga ggtgctgcag ggagccggtt atctggtgca 360
 gttgttcgag gagcaccggg taccocgctg tagggttgag 400

<210> 34525
 <211> 395
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-H7

<400> 34525

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 aggaacctct tccgaagtca ctagcccaga tcgttgcatg gcttctgaga tggggacagt 120
 ctccaaagct tcagtttcgt ccacctcacg ttcaaccctg gcggtagaac gcactctggc 180
 catttaatta tgaacttgtg gaactttaat actttcttcc tccgaagcaa gtttcaaact 240
 ggagcttctt tcgattccga cagacaagct tctgcgactg ttaaaaattt tggcagcaaa 300
 acagtgc aaa tagcaatgaa tactgtggta acttcacacc tacttgtctg tttatatagt 360

gctgtatgta agaaagctaa acgccaggat tttta

395

<210> 34526
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-F4

<400> 34526

ggaaaggtgc tatccagttt ttcataaaag aatatgacaa agcgctggaa acttatcaag 60
gtggcctaaa gcatgacccg aaaaaccagg agttacttga tgggtgtaagg aggtgtgttg 120
aacagatcaa caaggcgagc agaggcgaac tcagttagga ggaactgaaa gagagacaga 180
acaaagccat gcaagaccct gagatccaga acatcctgac tgatccgatc atgcagcagg 240
ttttgacgga tctgcaggag aaccctcggg ctgcgcaggc gcacctcaag aaccccgagg 300
tgatgcagaa gatccagaag ctcgtcagcg caaggatagt tcagatgaag tagacggggg 360
cttggaaatgt tccgggttca gatcttgga cctgtgcctg gaaatg 406

<210> 34527
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-H8

<400> 34527

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cgcaccacgg caggatgacg acgctgagga acctcaagat caagacgtcg acgtgcaaga 120
ggatcgtgaa ggagctgcgc tcgtacgaga aggaggtgga gaaggaggcg gccaaagaccg 180
ccgacatgaa ggagaagggc gctgatccct acgacctcaa acagcaggag aatgttttgg 240
ctgagtcaag gatgatggtc ccagactgcc acaaacgact tgaaactgca ctggctgact 300
tgaaagcaac actggctgaa ctgaaggagt caaatgagc 339

<210> 34528
<211> 216
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-004-Q1-K1-A1

<400> 34528

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gcggtgccac tcaggatacg atccctttta ttgtaaaaga gggatccctt ctttccattg 120
cattcttgca atccgtttct tcttgactat gtttcttctt gactatgtaa cgataataac 180
atgagaaaat tatctgaatg acattatatt ttttct 216

<210> 34529

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-004-Q1-K1-A9

<400> 34529

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ctggcatcta tcgtagccgc cgcgctccgg cgggctgggc cagcattcag catggacgat 120
gtcgtcggca gccttgccgc cgcgcggccg gtccacgtgc tcatggcggg catcctggct 180
gccggcgtgg cgaagctgag gcgcctgcgc cggccgcggg acgtgtacct ggtggagtac 240
ggctgcttcc gaccgcggcc gtgcttccgg gcgccgttcg ccacgtgcct ggagcacgtg 300
cacc 304

<210> 34530

<211> 271

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-004-Q1-K1-B10

<400> 34530

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cctgcagatc ccaaattcgg tggattatta aaaggagggc gaccgaantc ttctatngnt 120
ttcatcatgg acttcgcgga gaatctgatc ctccgtctga tggaagaccc ggacaagcgc 180
gaccatgttc tgcgggagca tgtctacaag atgaaggagc ggtgcgagcg cactaaggcg 240

gcgtggagcc ttctctgcg cccctacggc t

271

<210> 34531

<211> 196

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-004-Q1-K1-B2

<400> 34531

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accgaagaag cgggagagat ggctcgtacc aagcagactg ctgcgaagtc cacgggaggg 120

aaggctccca ggaagcagct tgccaccaag gctgcccgtg agtctgcccc caccactggt 180

ggagtgaaga agcctc 196

<210> 34532

<211> 64

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-C1

<400> 34532

taaaataaaa aaaaataaaa aataaaaaaaaa aaatatttaa aattaaaata aaaaaaaata 60

aaaa 64

<210> 34533

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-C10

<400> 34533

tgagaatctg ctacataggg catttagtgt gttccttttc aactcaaaat atgagctgct 60

acttgagcaa atgtccgcga caaaggttac ctttccttta gttgggacca atacctgctg 120

cagtcaccct ctgtaccgtg agtctgagct tatccaggag aactaccttg gtgtgagaaa 180

tgcagcacag aggaagctac tggatgagct gggcatccca gcagaagatg cccagttga 240

ccaattcacc cctctgggcc gaatgcttta caaggacca tctgatggga aatgtgggga 300

gcatgagctc gactacctgc tgttcatcgt

330

<210> 34534

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-C11

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tttgtcttct ggaggagccc tgcgagtctt acctttgggtg ttgcacctgg ctttgccata 120

ttggccctgg ctgtacttag cctcaatgtc tggaggagcg ggaagtccag cttaccgttc 180

atactggcgc aagcaggcat tgccgctgcg gtagcatgga agcacggcca ggcgtacacc 240

actacgagga agctgcttcc gtggggcttc tacgtcgcgc taagtgccgc aatgatctgc 300

ttctactcct acgttctt 318

<210> 34535

<211> 297

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-003-Q1-K1-C3

<400> 34535

accggctccg ggaattcctc ggggtcgact ccacgtcggn tccgtgcatc acggtagggc 60

ggatctggcn tntcgacacc agtctnntcg tcttctttta cgacgaccgt nncaagagcc 120

ggcgcggaag ggggtggtgtc atcaggtntt ctgcgcaccc gtcctgggac aactgctgcg 180

actnctcggc ttaccacgt tatcgacgcc ntngagtccg tacaaggac tcnttgccat 240

ggcttgctng ctgcaaggaa tctcngnntc gctgggtggc ccnaacggc aaggac 297

<210> 34536

<211> 479

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-C6

<400> 34536

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accctttcct caaggaacct taattttaga ttcttgaaga atatgagtca ccctgtattt 120

ttgggtccaat cttttaacaa ctatggtcct atgcttgctc taatcaactt atttataggc 180

ttatatatttc ttatgtttca taatatttcc ttgtattcat atttttttga ctttttatat 240

ttatttttcc aattttttat tttatttttt gtttctattt ttattttctt tttttacctt 300

tatatctttt tttttttttt attttttttt ttttatatta tttcttttta tatttttatt 360

ttatttttcc tttttatttt ttttatttta ttttttattt tacattttta tttttattct 420

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<210> 34537

<211> 173

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-C8

<400> 34537

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ggatataaaa tatccaaaac taacattcac ttacatacaa caacataatc tcttctataa 120

actcacctaa attcaattaa cttttccaac tactaaacaa catctatact gtc 173

<210> 34538

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-D11

<400> 34538

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tcgtgggtgt gttcgacttc gacaagacga tcatcgacgt cgacagcgac aactgggtcg 120

tggacagcct cggcttcacc gagccgttcg agcgcttact gccaccatg ccctggaaca 180

cgctcatgga caccatgatg ggggagctgc acgcgcacgg caggacgctg gacgacgtcg 240

ccgaggcgct ccgtgcggcg cccgtcgtcg cgggcgtccc cggcgtcatc aaggccgtct 300

acgcgctcgg ctgcgacctg cgcg

324

<210> 34539
<211> 400
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-003-Q1-K1-D3

<400> 34539

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gtgctcgccg gggctgccg cgccggcgcg cagcagggcg tgtggagcat catcaccg 120
cccatgttcc agagcatgct gagccaccgc ggcgacagcg ggtgccaggg cgccttctac 180
acctacgacg ctttcattga ggccgccagc aagttccccg gtttcggcac caccggcgac 240
gagcagacgc gcaggcgga gctcgccgnc ttcttcggcc agacgtcca cgaaaccacc 300
ggtggatggg cgactgctcc ggatggaccg ttgcctggg gatactgccg ggtgaaggga 360
cagatacaga cggaccact ctactatgga cgaggacca 400

<210> 34540
<211> 381
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-003-Q1-K1-D4

<400> 34540

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ttcgtgttga gagctacatc aagcccgctc ctgctattct ggagatcca tccaaagacc 120
atccatatga tccaacgcac gactcgggtgc tctctcgagc gaaatatctg ttctctgcag 180
aatcggttgc gtctgatatg ctatgaatgc atccttgctg agcagtacc ttcgatgcat 240
ctattttgtt atggtattga aaagaatatg gcacgtacca ttgggtgca tcgagccagc 300
atgaacaata ttgagcttgc taacaataat tggctgaact aaaccaacac cctctttttc 360
ataaatggtt ctaaataata t 381

<210> 34541

<211> 387
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-003-Q1-K1-D6

 <400> 34541

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 gagctacaac aagcccgctc ctgctattct ggagatccca tccaaggacc atccatatga 120
 tccagcgcac gactcgggtgc tctctcgagt gaaatatctg ttctctgcag aatcgggtggc 180
 gtctgatagg cgatgaaggc atccttgctg agcagtaccc ttcgatgcat ctaatttggt 240
 atggtattga aaagaagatg gcacgtacca ttgggtgcga gcgagccagc atgaacaata 300
 atgagcttgc aaacaataat tgggtgaacc taaccaacac cttttttttc ataaatgggt 360
 ccaaatagata ttttggtgcc ttgggggt 387

<210> 34542
 <211> 338
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-003-Q1-K1-D8

 <400> 34542

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 gggcaggctg gccaaagccg gcctcaacga caagctccgc cactcgggca tcatcgacat 120
 cgagttcacc aggggtgccgt gcgagttccc tggcctcaag atcggggttcc acgtggagga 180
 gtactcgagc cccgtctact tcgcggtgct ggtggagtac gaggactgcy acggcgacgt 240
 ggtgcatgtg gacctgatgg agtccaagac ggcgcgcggg ccgacgacgg agcgctgggc 300
 gccgatgcgc gagtctgag gctccgaatg gcgcatgg 338

<210> 34543
 <211> 87
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-003-Q1-K1-D9

 <400> 34543

tcgcccacgc gttcgccac ggcgcgcgc acgcgcgcgc ccacgcgcgc gccacgcgc 60

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<210> 34544

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-E1

<400> 34544

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gcctccggct gctgctggg ccagggcccg gggcgggcg ggaggtggcg ctcatggggc 120

tcgcccggga cgggtcggcg gacaccgtca acctcagtaa tagtgaaaat ggtcggttca 180

gatatggagt tgcaagttct cccgggaaaa gagcatcgat ggaggacttc tatgaggcaa 240

ggatagacga cgttgacgga gagaaagttg gaatgtttgg tgtgtatgat ggtcatggag 300

gagtcatagc agctgagtac gttaagcagc atcttttcag caatttaatc aaaca 355

<210> 34545

<211> 192

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-003-Q1-K1-E4

<400> 34545

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cgtgctcggt cgactgcatt tcattcaaatt nnttctgcc tagtnannac ttgtcgatgg 120

nttaggatag nngggcctac tcatgnnngt ggtgaccgg gttgacgtnn gagaattatg 180

ggtnnntcga tt 192

<210> 34546

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-E6

<400> 34546

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gatcgccatg tccgactcgg aggagcacca cttcgaatcg aaggccgacg ctggggcgtc 120
caagacctac cccgagcagg ctggcacccg cccgtaagaac ggcttcatcg tcatcaagaa 180
ccgtccctgc aaggttgtgg aggtttctac ctccaagact ggtaagcatg gccacgcaa 240
atgccacttt gtcgcatag acatattcaa tgggaaaaag cttgaagata ttgttccttc 300
atcacacaac tgtgacattc cgcattgtgaa ccgtactgag tatcagctga ttgatatttc 360
tgaggatgga tttgtgagcc ttcttacttc agatggcaac actaaggaat gatcttaaga 420
cttcccaac 429

<210> 34547
<211> 412
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-003-Q1-K1-E7
<400> 34547

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atccattatt ggtatgttta tgtcatatag taaacggatc aaagggatat actgtggcat 120
tagagaatat tcatcttgac aagaaattat ctatatgtaa agatatctct gacaacggct 180
atagctcatt tcggtagagc aactaattta cacgtgcgcc aatgcttttt aacggaactt 240
tttatgcaat gaacataatt gaccttgaag cataatcaat gtcttacttc atggattcga 300
aagagtcgaa caacagttac ctgacaatga caaacagctg ttttagatct attcaagtgc 360
caaatatgga gcttactcat atataacttc cattgatttc gccttctttg at 412

<210> 34548
<211> 329
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-003-Q1-K1-B8
<400> 34548

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tttcaagatc tcagaggtaa agactatttt cgcacaagag cgttggaataa tattctcaag 120

acgaaagggga taattgatga caagaagaaa gatgacgacg atgacgatga ataaagcgag 180
gctaagacta ggagggttag gtcttcaact gctcaagact ctgactcaga ctgaacctga 240
gatgaggatc gatgactcac cgtttctgca ctttggattt tgtcagtatg attgttctgt 300
gttgcgctgt actgtactgt aattgattt 329

<210> 34549
<211> 341
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-003-Q1-K1-E9

<400> 34549

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gggaaagagt agagagccca aagatgagag ctttaagcag ggtcggagtg gggctcgccg 120
tggtgtccgc gctgtcctt ctagegctca ccgaggagct ctattacatc ttcgtgcaca 180
agcgccggct gcggcgacgc gcagccgccca tctccgacgc gtcgtcgtcc ccgtcctcgt 240
cctcccgcga gctgtccag ctcttctgct tcaagaagcc gccggcgctc gcgtncacct 300
acgccgtccc ggaggccgcg acgacgccga cgccgacgac g 341

<210> 34550
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-F1

<400> 34550

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gggacaggac tcagatggag atgctgttct gctccactgt cgttggcctt ccgttcttag 120
cggtgcccac ggtgttaaca ggagagctcg tgactgcttg gacttcctgc tcccagcatc 180
tctacgtgta cgcggtgctg gtgttggagg cgatggccac gttcgtcggc caggtctccg 240
tgctctccct catcgcgctt ttcggtgcag caaccacagc catggtgacg actgctagga 300
aggcggagac gctgtgtgct gtgtacctga tatttaccac gccccctt 347

<210> 34551
 <211> 363
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-003-Q1-K1-F11

 <400> 34551

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 ccgggggttcg gtttcgtggg tgagcggatc gagatggcgg cgtcggatgt tgagtaccgc 120
 tgcttcgtcg gcggcctcgc ctgggccacg gacgaccact ccctccacaa cgccttcagc 180
 acctacggcg aggtcctcga gtccaagatc atcctcgatc gggagacgca gaggtcccgc 240
 ggcttcggct tcggcacctt ctccacggag gaggcgatgc ggaacgccat cgagggcatg 300
 aacggcaagg agctggacgg ccgcaacatc accgtcaacg aggccagtc ccgcggcggg 360
 cgt 363

<210> 34552
 <211> 294
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-002-Q1-K1-G8

 <400> 34552

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 gcatccttca ctccggctgc cgaatcgacc cgccccgatc cagatcagga gctgagggat 120
 ggacgcgaac aggcgccaga gtgggatcca gcagttgctg gctgcggagc aggaggctca 180
 gcaaattgtg aatgccgcta gagctgcca gtcagcgagg ctcaagcaag caaaagagga 240
 ggctgagcgg gaaatagccg aataccgtgc ccagatggag gctgagtttc agag 294

<210> 34553
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-002-Q1-K1-H10

 <400> 34553

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atcagaagtt tcggcaagga agaccagttc gtgtcgacta acagccgtct aacagatgcc 120
tactcccggc ccaagttcta caacgccgga gcgagggagt ggctttgctt tcgcctggac 180
ttgctgccct ctcttgcggt cgccttctct ctgatctttc tgatcaacct accgaccggt 240
ctcatcgatc caggttgtct ggagcatgtg cactttggag aacaagatca tatcagtaga 300
gagaatccta cagtacatgg gcgttctctc agagcccccg cttgtcatgc cagaaaacaa 360
gttggtcag agctggccat cgaatggaga aatccagctt cagaatctcc atgtgaaata 420
tgccgcgcag ctgcccttcg ttct 444

<210> 34554
<211> 421
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-002-Q1-K1-H5
<400> 34554

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tgatggtgac cttgtcaaga gggctccttcg gtgctttggc ccctcggagt tttccgttgc 120
cgtgaccatc ttcggcgggc gtggccatgc cgggacatgg ggaaaggcac ttggtgcaga 180
ggcttatgac tgcaacaaca tgggtggagca ggagctgcct ggaggcgggc tctcgtgta 240
ccagagcttc tgtgctgctg aagacgctgt tgctacctcg cccaaatctg ttttccactg 300
ctttgacggc gagaacgtgg agagtgtctc tctcctatg aagaaggact acaaactggc 360
taatcttcta tgctgggagg aggaagcggg tgccatggag gagaaggcgg gagtgttga 420
t 421

<210> 34555
<211> 423
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-002-Q1-K1-H7
<400> 34555

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atgcagcttg gtgtaccgtt atttcaacct accacagagg atgctaattg tcacacagaa 120
ccaatcccc ttgtcctgca ggctgtcatt gaccaccttg ttctttggcg tttaatacca 180
gaaagcagga aaccaaatag tgctgctcatc aacttcttcg atgaggatga acattcgag 240
ccctacttca agcctcccca tcttgacaac cccatttgca ctcttctgct gtctgaaacc 300
acgatggcat ttggcaggtc acttgctact gacagcaacg gtaactaaa aggacctctc 360
acactttcac taaagcaagg gtccttacta gtgatgcgtg ggaacagtgc cgacatggcg 420
cga 423

<210> 34556
<211> 399
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-002-Q1-K1-H8

<400> 34556

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tcaaaggaaa caagagggag atcagacagc ttggtgtacc gttatttcaa cctaccacag 120
aggatgctaa ttgtcacaca gaaccaatcc cccttgctct gcaggctgtc attgaccacc 180
ttgttctttg gcgtttaata ccagaaagca ggaaacaaa tagtgctgct atcaacttct 240
tcgatgagga tgaacattcg cagccctact tcaagccttc ccattctgac aacccattt 300
gcactcttct gctgtctgaa accacgatgg catttggcag gtcacttgtc actgacagca 360
acggtaaacta caaaggacct ntcacacttt caactaaac 399

<210> 34557
<211> 206
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-A10

<400> 34557

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agagaatgtt ggtcattttg cttgtgggag ctgggcgtca ttacatgacc gtggtaggga 120
cagtgatgat gatgacgtcc gttacaggga ctacgacgtg gcagctcttg ctaataactt 180

aagtcatgca tttctttatg ggatat

206

<210> 34558

<211> 201

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-A12

<400> 34558

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acctgggggc ataagacccc ggggtagcct tcaagacggc catcatggac tggatgacgc 120

cgcattcagc caagcccatc taccacgccg tgattaccgt cgtcgggagg ccctacgcca 180

ccgaccgcgc cgcggggagg c 201

<210> 34559

<211> 211

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-A2

<400> 34559

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gaaagatgct cttggcgatg ttctcgccaa gctaggctag acgcaagggc taataatggc 120

catgtaattt cggacttggtg tttgttcata tggaccggc aaggcaatgt accattttct 180

gttgatattg tatcaggaag cacttaacta c 211

<210> 34560

<211> 114

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-A3

<400> 34560

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aattgataag tgtaaaaatt aaaataattt ataataat ataaaatatt aata 114

<210> 34561
 <211> 302
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-003-Q1-K1-A4

 <400> 34561

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 cagcagcggc aagcccaccc gttegacgac atggcccgcc tcggcgccgg cgccgtgttg 120
 gcgctcctag tggcggtcgc ggcggtggcc gcgttcctcg cggtgccggc ctgggcaag 180
 tccggggagc tgagcgcgat ggggttgctg gcggcgaagg gcggcagcgg cccgggcccg 240
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 ag 302

<210> 34562
 <211> 377
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-003-Q1-K1-A7

 <400> 34562

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 gaaagagaaa atgatggaac ttgagcttgc tgatctgaga cttcaacaac atcaagagaa 180
 ggctgctcac gaacataccc aaatgcaatt gtatgccgag caagtttctc agcttatgac 240
 tactgagaag aacctgcggt tgcaactagc ttcggatgga gaaagatttc agcactttca 300
 ggatgccctg tcaaaaaaca atgaaattct ttgaaactta caagcaagag atggaaaaaa 360
 tgatttttgt gataaaa 377

<210> 34563
 <211> 454
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-003-Q1-K1-A8

 <400> 34563

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 taaaattaat aaatatTTTT tgtactTTTT ttaactatTT ttatTTTTTT ataacttctt 180
 ttatTTTTTT actTTTTTTT tttttttaca tatttttatt ttttttatat ctttttttta 240
 cctatTTTTT tctttaaaaa actttctttc tttctTTTTT tattttttta tatttttttt 300
 tcttttttcc tttatttget tttttcttta atatcctttt ttttttttct ttttttatTT 360
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<210> 34564
 <211> 310
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-003-Q1-K1-B1
 <400> 34564

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 tgctagaaga gcgatgccta ccataccaca ctgatgtcag tctctggagc atttaagtgg 120
 tctggatcaa tggaatgtgt gtgtactagg cagccggcaa agatgagctg ctgatggtaa 180
 tgatgatgat aagaggtcac tgggtacccta ctacgtaccc tgggtctttgt gagctggcat 240
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<210> 34565
 <211> 383
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3068-003-Q1-K1-B10
 <400> 34565

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 gctgcgttcg tcaatagagt aactggtgtt aaatctaag gtacaaagaa tttcattggt 120

gttgatggca gcatggcaga actcatcaga cctagcctgt atggagcata tcagcatatc 180
gaattggtct ctccccccac tcctggtgct gaagtagcga ccttcgatat tgttgggcca 240
gtttgtgagt ctgcagatct ccttggaaaa gatagggaac ttccaacacc tgatgaggga 300
gctggactgg ttgttcatga tgcangggcc tactgcatga gcatggtttc acctacaacc 360
tgaagtgagg ccgccaaaga ctg 383

<210> 34566
<211> 125
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-B11

<400> 34566

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ccaag 125

<210> 34567
<211> 118
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-B2

<400> 34567

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agaaaaaagt aaaatttaaa catttaaaat aattaatatt aaaataataa taaataaa 118

<210> 34568
<211> 251
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-B3

<400> 34568

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cgacagggac tgagatctgg tgtcgcagca caggtgcaac acaagtatgc ttgctggatg 120

gaggattcat accagctgat gctgatgtag tgtttcactg gtgtcatgca tgcattgtatc 180
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 aaaaaaaact a 251

<210> 34569
 <211> 330
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-G7

<400> 34569

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 cccaacttaa tcaccttcca ccccatcccc ctttcaccct cttctcttat tacccaaac 240
 ccccttacc accccctta ccaacctttc ctcacctta atacccaatc tcccccccc 300
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<210> 34570
 <211> 282
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-B4

<400> 34570

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 cggcggcccc gcagcgctg ttccgcgcgc ccgtgatgga ctggcacacc ctggcgccca 180
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<210> 34571
 <211> 371
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-B5

<400> 34571

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tgctcttgat ctcatcttag atattgaatc atctcatggt gatatgttca ctgaggaaca 180
aaatgagctc gtagaatcag ctgcagagat gctttatggg ctgatccatg cagcatacat 240
tctgaccagt aaagggctgg ctgcaatgct ggagaagtat aggaactatg acttcggggcg 300
gtgcccgcgt gtttactgct gtggccaacc atgcctgccg gttggacaat cagatattca 360
tcgatctagt a 371

<210> 34572

<211> 86

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-B6

<400> 34572

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aaaaataaaa aaataaaaaa taaaaa 86

<210> 34573

<211> 385

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-003-Q1-K1-B7

<400> 34573

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agcattctta caattgcaag atcctcccga atagcttggt gctggatttt gtgacgaacg 120
tccagatccg cggcatcacg ctgctcaaca gcaagttctt ccacctcaac atcttcgagt 180
gcaagaacgt gctgatcgac aaagtgacgg tcaaggcccc cggcgacagc cccaacacgg 240
acggcatcca catcggcgac tccagcaacg tgaccatcag cagcaccacc atcggcgctcg 300
gcgacgactg catctncatc ggccccggga gcaagatgat ccgcatccat ggcgtcaagt 360

gcggggccagg ccacggcatc agcgt

385

<210> 34574
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-D2

<400> 34574

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tctgtggat ggcactgttc ctccagtggc cgctcctact ggttggtaat cagcagccca 180
gccactgcc caaggcttgg agtaggcgtt gaggcacac tctgagacgt cttgtgcggg 240
attatttcaa agtatgaatg cccgaagtca gacgacatat tttttagat tatttgcata 300
gctttgtgca ctgaatgttt ttagggcttt ttttattgat ccggtgccca tagatctgtt 360
ccttaaaatt gtctttatatt aat 383

<210> 34575
<211> 127
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-D4

<400> 34575

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aagaaaaatt agaaaaaatt aaaaaaacia caaaaaacac aaaaaaacia ataacaaaaa 120
taataaa 127

<210> 34576
<211> 417
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-002-Q1-K1-D7

<400> 34576

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 gctgatgcag aagctgcgcg ccgtgctggt ggaccacgcc ctcagcagcg gcgacgcgga 180
 gcgggagccc tccgtgttct ccaagatcac caggttcgag gaggagctcc gcgcggtgct 240
 gccccaggag gtggaggccg cccgcgtggc ggtcgccgag ggcaccgncc ccgtggcgaa 300
 ccggatcgcg gacagccggt cgttcccgt gtaccgcttc gtgcgcgagg agctcggctg 360
 cgtgttcctg accggcgaga ggctcaagtc ccccggcgag gagtgaaca aggtgtt 417

<210> 34577
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-E1

<400> 34577

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 ggggtcagca gggccaacgc cgccaacatc cccggcaagt gcggcgtctc cgtcggcgtg 120
 cccatcagcc ccaccgtcga ctgcaccaag atcaactgat cgatggaacc atagtggagg 180
 tagctcgctc gttggatggc agcgtaactg gccatcagca gcatgcagtc gtcgtcgtag 240
 cagagatgtc ctagctacgc gtgtgtcatg catcagactg gcacataata aagaagtaga 300
 tcatgcaccc actagtgate acttcgtcta gtgtccctac gttcaatgtc gtcgtcatca 360
 tcgtgtacct tacgtgacat gctgtaacac gtacgctagc agagcagcac ctcaatgtcc 420
 ttgggt 426

<210> 34578
 <211> 223
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-E10

<400> 34578

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gcatgtcgta ataaaatcaa tttctttttt tttttttaat aaaaaaaatt ctgattttct 180
gggtctagtg aataaatgga tagagcctgg ctctaattct ggt 223

<210> 34579
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-E12

<400> 34579

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acttcacga ggaggcgtcg cagcagctga gctgggcgct gctgggcgtg cccatcgcgc 120
tcgtctcct catccgctgg atctcctccg tcgactcctt cgagggtac ctgggcttct 180
acccgagga gagccgctgg aagggccgct acgagcgggg ccccgccgag ggcagctcgc 240
cctggggcgt cgccttgctc gtctcctcc tctcgtgct cgccagcttc cactccacca 300
tccacgacat gtgggggccc tgaacggccg gatgtgggtc ctgctcctgt tcgattccac 360
gcgcgcacgt atgcgattgt actgctggtt gctgcttgat cgatcgatgg atcgatgatt 420
ccatgtacat atttgtagg gggatgctgc tgct 454

<210> 34580
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-E3

<400> 34580

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atggctgccg caaggggcat taaccagctc ctgaagagaa ctttctacaa ccagtctgct 180
ggttcgtcgc cgcttttctc atttcgggga aagcatgaag aatcctctgc tggactgaga 240
gcattggctc ttcttgaggt tgggtgcctct ggtcttttga gttttgctac aatagcatct 300
gctgatgaag ctgagcatgg cttggcagcc ccagattatc cctggccaca tgctggcatc 360
atgagctcgt atgatcacgc atcaattcgg cgtgggcatc aagtttacac gc 412

1. *Conduct a thorough background check on the individual, including a review of their criminal record, credit history, and employment history.*
 2. *Obtain references from previous employers and landlords to verify the individual's reliability and character.*
 3. *Interview the individual and ask them to provide a detailed explanation of the circumstances surrounding the alleged incident.*
 4. *Consider the individual's age, maturity, and mental health status when making a decision.*
 5. *Consult with legal counsel to ensure that any decision made is in compliance with applicable laws and regulations.*

<400> 34581

<400> 34582

<210>	34583
<211>	438
<212>	DNA

<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-E9

<400> 34583

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 atatacccaa aaaaaataaa aaaaaaataa acaaacaaaa aaaaacaaaa aatacaaaaa 120
 aaaaaacata aaaaaaaaaa aataaaaaaa aaaaatacaa aaaaaaaaaa aaaaaatata 180
 aaaaaaaaca aaacacaaaa caaaaaaata aaaaaaaata aataaaaaaa aaaaaataa 240
 aaaaaaaaaa aaaaaaaaaat aaaaacaata aaccaataa acaataaaaa aaaaaaaac 300
 aaaaaataaa aaaaaaaata aaaaaaaaaa taaataaata acaaaaaaaaa ataaaaaaca 360
 aaaaaaaaaa atataaaaac aaataaaaaa caaacacaaa aataaaaata aaacacaaaa 420
 aaaaaaatac atacaaaaa 438

<210> 34584

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-F12

<400> 34584

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 tgtgaggtgc tccattgaac tgcttgatca cccaaaagat tacacgacac ctccagaaga 120
 acttgactt ctaccagcaa gtgctaccct aggtgacctg aaagtacagg cttcaaaggc 180
 tttccaagaa acgtacctga tgttccaaag cttccagact gaacagctcc ctgactttcc 240
 aaacttcagt gatacaacc cgtgaagca tgtgcttgga tcaggccagt tgcttcgagt 300
 aaggggacgt tgactggggg attacaggag aattgtacag ttcaggatgg agaggggttt 360
 ggagaactgg acggtggact gctcatgtgg ggccaaggat gatgatgggg aacggatgct 420
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<210> 34585

<211> 184

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-F4

<400> 34585

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tcctccttta tggacctcca tgcacatgaa aaacattgct tgcacgtgcc gatgctcatc 120
acactgactg caccttcatc aggatgtctg gttcttaatt ggttcacaaa tatattggtg 180
aaag 184

<210> 34586

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-F8

<400> 34586

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acaggaaaga cattgctggc acgtgcggtt gctcatcaca ctgactgcac cttcatcagg 180
gtgtctgggt ctgaattggt tcagaagtat attggtgaag gttcccggat ggttcgggaa 240
ctctttgtta tggccaggga acatgcgcca tccattatat ttatggatga aattgactct 300
atcggatctg ctagaatgga gtctggaact ggcaacggtg atagtgaagt gcagcgtacc 360
atg 363

<210> 34587

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-G10

<400> 34587

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gacttataca atgttatgta tcgagaaagg acactttttt taggtcaaga gattcgttgc 120
gagatcacia atcatattac aggtctgatg gtatatctca gtatagaaga tggaaatagc 180
gatatttttt tgtttataaa ctcccctggc ggggtggctaa tctcaggaat ggcgattttt 240

gatacgaatgc aaacggtgac acctgatata tataacaatat gcctcgggaat agccgcgtcc 300
atggcctcct tcattctgct tggaggagaa cccaccaagc gtatagcatt ccctcacgct 360
aggattatgc ttcaccaacc tgctagtgtc tattatcggg caaggacacc agaattttta 420
ctagaagtgg aagagttaca caaagttcgc gaaatgatc 459

<210> 34588
<211> 260
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-G12

<400> 34588

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ggttttcgag atcttactct taaatagatg caataattct acatcggact atgaaataat 120
aatagccagt actataatta ttaattataa ctccatatat taaacatcaa aaaacataaa 180
acaataatcc tattatgtta tccgatgcta atgaatccag agctaaagaa taggttcagc 240
actctaaatt cttaaaagat 260

<210> 34589
<211> 201
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-G3

<400> 34589

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atgtttggac tttaactttg ttttatgttg gaaagtactt gaaagacttt tcctgtggta 120
attctaggcg taagttgctg tgctggttgg ggtttactgg tgaaccagag tttttctatc 180
ccactatgaa tttgttacct c 201

<210> 34590
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-D12

<400> 34590

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aaggctcagg atgtcttgca actgcggatc aagctgcggc tgcggctcaa gctgcaagtg 120

cggcaagaag taccctgacc tggaggagac gagcaccgcc gcgcaggcca ccgtcgtcct 180

cggcgtggcc ccggagaaga aggccgcgcc cgagttcgtc gagggccgcg cgaggtccgg 240

cgaggccgcc cacggctgca gctgcggtgg caactgcaag tgcgaccct gcaactgctg 300

atcacatcga tcgacgacca tggatatgat tattatctat ctagcttgtg gtggtggttg 360

aacaataata agcgaagccg agctggctgc catacatagg tattgtgtgg tgtgtgtgag 420

agagagagaa acagagttct tcagtttgc atctctctct 460

<210> 34591

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-G4

<400> 34591

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gtcgtcacta tcgtcgcttt taggttcata tgcccatagg tgcttttgca gccgtcgtg 120

atcgggatgg aagctcccgg catccacgag accacctaca actcgatcat gaaatgtgac 180

gttgatatca tgaaggacct gtacgggaac atcgtcctca gtggaggagac gaccatgttc 240

cctggcatcg ctgacaggat tagcaaggag attactgccc tctcaccgag catctttaag 300

atca 304

<210> 34592

<211> 455

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-002-Q1-K1-A12

<400> 34592

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tccttcaacg agataaatta ctatgttgac atgcctgcag agatgaagag tcaaggagta 120

Sequence 14876

accgcggata agcttcagct gctgtcaggg atatctgggg cttttcgacc tgggtgttctc 180
actgctctta tgggtgtgag tgggtctgga aagactactc tcatggacgt tttatctgga 240
aggaagactg gaggatatat tgaaggagaa atttatatat ctgggttacc taagaaccaa 300
gaaacatttg ccagaatatc aggttactgt gaacaaaatg acatccactc tccacagatc 360
actataaggg agtccctact ctnttctgct ntcatgcgcc ttcctaagga ggtcactgac 420
caagaaaaga agatattcgt ggatgaagtt atgga 455

<210> 34593
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-A3

<400> 34593

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tgcttaagtt tctttgctgt tccaagttta gtgacaaaac tgacaatggg ttagcaactg 180
ggttgtgctg cgaccagtat tttcgttttg cctacctgta ttgtctagtc tgtgtttgca 240
ctgggtggatt tgcagagatg ttatcattca acaattgttc tgtggtc 287

<210> 34594
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-A4

<400> 34594

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cttcttctcg gaggtcggag aagagctctc tgcttcattc ggccggtcca actccaccga 180
ccgatccaat ccaaccact gaccatgggg tccccgccg tgtgctgctg cgccccatc 240
cccaagccgg tcgtgcctt ctgcaacctg ctgcgcgcca tcaaggacgc cgtcctgctg 300
acgctcgccg ccgtgggctt cccgcacgac gccgcgcgcg gctcggcgga cgcccaccag 360

cccgaggagg tgaagacccg gctccccgcc gtggagtacg cccagctcct ggccgagca 419

<210> 34595
<211> 426
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-002-Q1-K1-A6

<400> 34595

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ccggccgggg gcgaccactc cccggccttc tcgttcagca tctggccgcc gacgcagcgc 180
acgcgggacg cgggtggtgcg gcgcctcgtg gagacgctcg cgggggacac catcctctgc 240
aagcgctacg gcgcggtgcc ggccgctcgc gccgagcccc cggcgcgcgc catcgaggcc 300
gaggccttcg acgccgcggc ctccacggga ggcgccgctg ccgccttcgt ggaggagggg 360
atcgaggcgc tgcagttcta ctccaaggag gtgagccgnc gncnctcga cttcgtcaag 420
tcccgc 426

<210> 34596
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-A7

<400> 34596

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tggactgaac gtgtgactag ataacaacaa gcgtgaacca tggcggacga gtacggccgc 120
agcggctacg gcaggtccgg cgccggcgac gactacgaca gcggctacaa cagcaagtcc 180
ggcactgatg actacggccg tggcgaaggt ggctacaaca agtcgggcgg cgatgacgac 240
tacggccgca gcggcggcga tgggtacggc aggtccggcg gcgacgacta cggccgtggc 300
accggcggcg gtggctacaa caagtccggc ggccg 334

<210> 34597

<211> 382
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-002-Q1-K1-B4

 <400> 34597

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 cttccacccg ggggtgctatc ttttcaccaa gggcatgggc gccaacctct tcgaccggcc 180
 gcagctccat cttctttacc gtctacgact ggctctacag ctactagacc aggagcaacc 240
 accgttagat cgttcgagat ggatggacag tgaataggcc atgtttgctg gtccttgtgg 300
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 tgtgtattgt tgtttttgtt ct 382

<210> 34598
 <211> 419
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-002-Q1-K1-B9

 <400> 34598

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 catagcagcc ctctggtaag gaacggtgcc ggccgtgttg tccgtagacg attgaggggg 180
 acagaaagag attctttgga tgtttttctt tgtttccttt atttataccg agagataaac 240
 aaataaaaaa acccagagac gaaaaaactt tttttcttga accgccctgc ttcccctctg 300
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<210> 34599
 <211> 169
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-002-Q1-K1-C1

<400> 34599
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tgtcttgtag ctgctgatca agctgctgct gcggtcaag ctgcaagtgc ggcaagaagt 120
accctgacct ggaggagacg agcaccgccc cgcattgccac cgacattct 169

<210> 34600
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-C11

<400> 34600
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cctcctgctc ctccctctct tcagegtccc cctcgtctcg cctaattctc cgccgcggcc 120
ttgccggtgc cgcagacggc catgggtctg cgaagggtgc cttgtggaaa gatccgttga 180
gcccagagcaa gtggaaggaa gagcactttg ttctagcaag cctctcaatg tgggggggtta 240
ttttttatgg tggttacaag ctttttagtg gaaagaagga agccaagact gaggcgggat 300
caccacaggc ataggtggcg gagatggagt tgtaccata tctgtggcct ggcaacaatg 360
ttaaataaaa ggaatgcttt atgttgtgct ttcaagttga taaattgtgg caacaagaga 420
ttttgcttta cctaggcaat atattgagaa gct 453

<210> 34601
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-C12

<400> 34601
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acatgttccc cttcagatg ttgtggatgt cgttgtcagc cttcttatg tattttcttcc 180
tgtgggtcaat atccagctgc gccaagagtt ccatgttgcg tctcagaact gctgagttaa 240
taagggatgt gctttcaccg ttgaagtcag tgctgacatg ctggtcaacc ttggtgttcc 300

ctgtgtcatt cttggacact cttaaaggaa agctctgctg tgagaatcaa atgaatttgt 360
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<210> 34602
 <211> 144
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-C7

<400> 34602

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 ataattattat gatgtgctag attc 144

<210> 34603
 <211> 394
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-A1

<400> 34603

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 accaatgggtt aaccttgaaa tgtgcatgac tggctctggac aagaagatag cttctgtctt 180
 tttcaagact aatgctgatg ggaacacaac atgtgccaa gaaatgacaa agctctctgg 240
 catctctgaa atcatccccg agatggagat ctgcatgttt gactttgaac cctgtggcta 300
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<210> 34604
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-C8

<400> 34604

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 aggatccgcg tccgaggcgg cggaagacg tcgcagatct acgccatccg ccaggccgctc 180
 gccaaagggc tcgtcgcta ctaccagaag tacgtcgacg aggccgcaa gaaggaggtc 240
 aaggacatct tcacccggta cgaccgcacc cttctcgctg ccgagcccag gcgctgcgag 300
 ccgaagaagt tcggtggctg tggcgcccg cccaggttcc agaagtccta ccgttgagcg 360
 ctcggtgccc cgctcttgcc ggacagttgc ctgtgttgtc ccaacttgcc agatcgatgc 420
 ctgtacccgt 430

<210> 34605
 <211> 386
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-002-Q1-K1-C9
 <400> 34605

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 ggttcattgcc tacgtactct gatcgtggta acattcattt actatacacc ttttatcatc 180
 tttgttatct tattttctac accattcttt actttttaca tgctctattc gttctatctt 240
 aaaatactat ttatctttta tatttttcta ttattactcc cttttttttc ttatttttat 300
 atttcattac tttttatttt ttctctcact attttttctt tttttatttt ttttaattta 360
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<210> 34606
 <211> 362
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-002-Q1-K1-D10
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ctagccgtcc gaattgtagt ctggagaggc gtccctcagcg acagaccgac cccaagttct 180
ctggaaaggg actcctgtga gggtgagagc cccatgctgc cgggaccctg tcgcaccacg 240
aggcgccatc aacgagtctc tttgtatggt aatgcatgcc aaatcgctcg gtatactacg 300
tccaatgcta aatacaagcg agataccgat agctaacaag taccgttaaa aatataaatt 360
at 362

<210> 34607
<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-G10

<400> 34607

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gaaagaagcc gagacagaca gtgactcaga ttgagtcagc aggcattcac tattgcacag 120
aggagagccg aacccgagtt agggggcgtg gcagtgcatt ggacctctgc ggagacctgg 180
ccccaccca ccgtcctgct tttccccggc ttccttggcg ttcacacgct ggctccagtg 240
tctgcagggtg tcgggcacaa accgtgtaca gcattttgag gcgtgggtctt tgtacctct 300
tttcagtcta ataaaatgac ttggagaaaa a 331

<210> 34608
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-G11

<400> 34608

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tcaagattct ccaagccagg cttctacagt atatgaactg tgaactttct catgctggat 120
ttaaaaaagg cacaggaacc agacatcaaa ttgcctacat ccgctggatc atcacagatg 180
caggagagtt gcagacaaac atctatTTTT gctttattgg ctatcccaga ttcttttact 240
gtgtggatca caaaataatg tagaaaagtc ttaaagagat ggggaatacca gaccacctta 300
tctgcttctt gggaaatctg catgcaagtc aagaagcatc agttagaatt ggacatggag 360

aaacagactg gttccaaatc aggtaaggag tatgtcaaag ctgcatattg tcac 414

<210> 34609
<211> 254
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-G12

<400> 34609

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agcacgctgg actccttcat gcagcccttc cagagcacgc tgtggctgct ggtggggctg 120
tccgtgcacg tgggtggccgt gatgctgtac ctgctggacc gcttcagccc cttcggccgg 180
ttcaaagtga acagcgagga cgaggaggag gatgcgctga ctctgtcttc ggctatgtgg 240
atctcctggg gcgt 254

<210> 34610
<211> 175
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-G3

<400> 34610

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ttacatattg taggttagca ttacagcatt atgcagtttc acacaattca tgtagcttg 120
tatgttgaat ttgttaatgc accacacaag tgcggaataa agactgattc acatt 175

<210> 34611
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-G4

<400> 34611

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gccgtggtgg ccctcattga cgtcttccat caatattccg ggagggaagg tgacaagcac 120
aagctgaaga agtcagaact caaggagctc atcaacaatg aactttctca ttttttagag 180

gaaatcaaag agcaggaggt tgtggacaaa gtcattggaga cactggacag tgatggggac 240
 ggccaatgtg acttccagga atttatggct ttcgttgcca tgattaccac tgcctgccac 300
 gagttcttcg aacacgaata aggaaaagaa agcagcggag ctgtttctgc agcagagacg 360
 gagtttgacc aggggaacac aggcagggtg tgcagggtg taggagctga gctttccgtg 420
 t 421

<210> 34612
 <211> 317
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-G5

<400> 34612

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 gcgcaggctg ggacgcctct ccccccctccg ccccgccgc ggaaagttaa gtttgaagag 180
 gggggaagag agagaaacat ggacatgaag aggaggatcc acctggagct gaggaaccg 240
 accccggcag ctgttcgaga acttgttctg gacaactgca aatcaaatga tgggaaaatt 300
 gagggcttaa cagctga 317

<210> 34613
 <211> 221
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-G6

<400> 34613

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 taactttatg caaggtgcag tccataatat ctagtatagg ctctcaaaac tgctgaaaat 120
 tttatcctga atcacgactg taatgtctac cacttggaaac cagtgcctcg tctgtaatcc 180
 catacattaa gaaagttgct catcatattc caaactattt t 221

<210> 34614
 <211> 348
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-G7

<400> 34614

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ccactgatgg cacggggcat aggcataata tcttgtagt acgtgtcaaa gactgctcga 120

atatatttaaa cctgaagcac gactgtacat gtattcatac gtggaaccag tgcgctcacc 180

tgtaagcctc atacactagg aacgttgac atcttattcg caacgaatat cgttcagcct 240

ggtatctata gagcctaact ctgtagaaga gatcgtagc taaacattat gtctgttgta 300

actcagataa ggatctccac ttctgatatt gagtactgat attttttc 348

<210> 34615

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-G8

<400> 34615

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cagggccatc gcatgtatct tggtacactc tcaaaactgt cattatttta acctgagcac 120

gactgtaatg tctaccatct ggaaccagtg actcacctgt aagctcatac cctaggaacg 180

ttgcacatct tattccaaac aatatcgggc tgtctggtga tcttttagagc cttactctgt 240

taaagtgatt gtcagccaaa cattatgacg gatgtgactc aaattagtgt ttcccacttc 300

tgtatttagt accggtatct ttttttgaag tggcatatgt gactatttta a 351

<210> 34616

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-G9

<400> 34616

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caagtgcctc cgagattaaa accgcttcat cgggaggtag tgtgtgttct tttccagaac 180
 tgggctccac agtgggtgatg gtggaggtgg tggtagcaga cccagtgaag acagtttctt 240
 gcaagctcca gcaactcaac agttttctcat ctgctgggaa catgggttcc catgtagcaa 300
 gtcgtacgtc gtgccctgtt ctcttagct agttaaactc acgagctgtg ttttacaact 360
 aatccttaat aactatggta attaaactgtg actgtgggtt ttttaaaatc tgtcat 416

<210> 34617
 <211> 361
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-H11

<400> 34617

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 caagagactg ttctatatat cagtgtctct tttgctgtct cgtatacagg gttattgtta 120
 ccatctttct aaattccata tataatgcgt tagcatactg tattgttttt ctttctggct 180
 tacttcactc tataggctcc agtttcatcc acctcattag aactgattca gatgtattct 240
 ttttaatggc tgagtaatac tccattgtgt atatgtacca ctgctttctt atccattcat 300
 ctgctgatgg acatctaggt tgcttccacg ccctggctat tataaacagt gctgcgatga 360
 a 361

<210> 34618
 <211> 245
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-H12

<400> 34618

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 ctcatattaa tctatatcat gctaaattta tgtaagctat gtgtaccaa catgtattgg 180
 aatcttagta agctataata tccccagcac agctataccc tcacatgaaa aaagacataa 240
 aaggg 245

<210> 34619
<211> 107
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-H2

<400> 34619

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tccctggctg attatccctg tgttactaat aaatgtcttg caacaat 107

<210> 34620
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-H3

<400> 34620

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tgtaatttgt tgagtatggt attgaaagtg aaaaccagaa cagttgtgta ggtatggaat 120
ggttgtaagt gtattagttg tttgttgtca ctatcagggt gctgggagct gaggctccct 180
tgctgtccag catgacgaga gaacattgta ccacatttca ctagcccaag aaaaaataaa 240
aattctagct agatatggtt tccactgaag gtgtctcgct ttcacaccat tataatgtca 300
aaaactcagg ttgaaccatt gttaagtcgg agactgtcta aatttattat gtagatgttt 360
attaccaggt aagttttagt taaatctcac tcttatccag ctgtttccct tattagaaaa 420
ataat 425

<210> 34621
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-H4

<400> 34621

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gcgttgctag ccaaateggc tataatccct gcactcattg agttgctaaa tgctcaacaa 120

gaagatgatg aatttgtttg tcagataatt tatgtcttct accaaatggg tttccatcaa 180
gccacaagag atgtcataat caaggaaaca cagggtccag catatctcat agatcttatg 240
catgataaaa ataatgaaat ccgaaaagtc tgtgataata cattagatat tatagcggaa 300
tatgatgaag aatgggcca gaatattcag agtgagaagt ttcgctggca t 351

<210> 34622
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-G1

<400> 34622

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actgtttaca cagcataatt gaagttgcag gggagacagg ctaaactctga cttcatctgt 120
actcactttc actaagcatt gaatggcctt accactcttc tgcaagatgg aggaagactg 180
caaaacttag tgcccatcac actgaaggaa ggggtgtggc tcttttcctg cttctgtact 240
gctacctaac tttgtggtta gctttggatt ttaatatctg tatctgcttt agattcaagc 300
ccataagttt tgaagtgact tcagcttcat tgtgaaatag ctctcttcat atttcatagc 360
tacatttcaa caatgctgaa ctttctactt tgatttttag atactttatt t 411

<210> 34623
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-H8

<400> 34623

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aaaggatttt agcaggaacg tcctgcttat taatgggtggc aaccaactgg actgtcaatg 180
cttctgcct cactctgcgg tcattctga tatatcttat gcatgatata taatatgtgg 240
cttctaagag ctgtgataat acattagata tcacaacgga atgttaatta gaatgggcca 300
ggataattca cagtgatagc gatcgtgaa ataactttca atgac 345

<210> 34624
 <211> 269
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-001-Q1-K1-H9

 <400> 34624

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 tcctctgtta ctgaatcctc tttggtctcc ctgttctggc tggcatctgc tctgctgctc 180
 cactcttctc cgtgtgacat cctgacttat accgacatta tcatcgtaca atcttctctt 240
 ttctcgtcat cttatgtggt gcaggctctc 269

<210> 34625
 <211> 284
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-001-Q1-K1-E12

 <400> 34625

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 gtgcctatca acagatgacg atgataaaat ggtgtgtgtg cgtgtccgac tctgcaaccg 180
 acagttgtgt ccgactctgc aatctcatgg actgtggcct gccaggctgt tctatccatg 240
 gaattctttg ggcaagaata ctggagtaga tagccactcc cttta 284

<210> 34626
 <211> 407
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-001-Q1-K1-E2

 <400> 34626

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gagactgccg gatttgacaa ttagggaatt ttttgacaga attctcagtg agtgaagaag 180
acagacctga ctggaagtaa ttagaggggtg aagtggctgt gacgtattgg aaccaataat 240
ctttggttgc taaggtgaga aatttgacag tgaaatgaat aagatacgta tgtttttgaa 300
tgtatgtctt ttcttttaag cactagagac tttcaatatt tctgagaaag atggtgacca 360
gagagcctca tcttgattca cctttgtgcc ttagatactt gtgtaat 407

<210> 34627
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-E3

<400> 34627

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agaatctgcc tgcagtgcag gagacctgag ttcgatccct gggttgggaa gatcccctgg 120
aaaagggaaa ggctaccac tccggtgttc ttgcctggag aatcccaggg atgggggagc 180
gtggtgggct gccgtctatg gggctgcaca gagtcggaca tgactgaaat gacttagtaa 240
cagcagccgc agcaccact ccagaattct gtcctggaga attccatgga ctgtatagtc 300
catgggggtcc caaagagtca gacacgactg actttcactt tccagtgggt aagactctgc 360
ttccagtgca agggactctg gttcgatccc tggt 394

<210> 34628
<211> 410
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-001-Q1-K1-E4

<400> 34628

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gcaaaataca gctcttcacg aagcaactct gcttggccgg gcaggaaggg agtgcacgc 120
tgccttactg ggatgcaacg ccagcgtcca gaagaagaat gcgagaggcc agacggcata 180
cgacctggcc ctggaaagtg gggatgagcc catcacctcg ctctttgctg ctaagcttgg 240
cctggatgaa cgctaagcct gaaagcccca cgggcatcat tcagagaagt caccagctc 300

cggtgtgtgt gtgttcgctt ccttccaaat gcatattcga ggtttggaat tcgagcttga 360
gagccactca taagatntta aaaactatgt gacagtgtaa gccacccatg 410

<210> 34629
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-E6

<400> 34629

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tgtggtggac gctgctcaca caccttagga gcctgatcgg cgcggtgcga gaaggacgc 180
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tcatagcggc ggctggacgt tccgggagcc tggcgggtgac cgtggctatt gctagagcga 360
aggttacagg tg 372

<210> 34630
<211> 422
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-001-Q1-K1-E7

<400> 34630

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cagcccacct actggggacg ggggcctggg gcccaagtcg agtctcttgg ggaggacgtg 180
cagggtgcct gcccgaggga ggggtggggc cctgagacag cttgcctgcc tgcagatgcg 240
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<210> 34631
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-E8

<400> 34631

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aggaggagga cctgtacaat ggcgtatgca taccagggtcc tgtgtaggtg cctgtgctag 180
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ctacgaacag ggttcattga gatccgtgca ttatcatcat agagcttggg gactatgctg 360
actgtacatg cacatagatg ctttcaaaca gtgccctcag agttttgtt 409

<210> 34632
<211> 282
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-E9

<400> 34632

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ccaccggggg cggtactggg gcaagttcta catgcctgag cgcgtgtagt gaggtcaag 120
agcaggaatc cgcgccttcg tgcccctgag ccagtccttc gggctcttgg gtacctctga 180
tgtcataacc gaggagcagc atgtgaacag atgctctgaa aaactgtacg tcacctgtcg 240
gattctttta agtacattat attaaagttt gagcgtttagc tc 282

<210> 34633
<211> 229
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-F1

<400> 34633

ctaacgcgtt gcgttctaga tctatagcga atgtcccatt acatattagt gatccaggag 60
gctgatttga ccgcattagt catcttctat tattacctca ctaaggctgg agtcaattat 120
tctcttgctg actcagaatt caaggatctt acctaccttg aacttgatta cttttagtaa 180
gacagactag attgtgatca ctctacgaca aagaaatggc tacaatgta 229

<210> 34634

<211> 202

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-F10

<400> 34634

aattactact tgatggctctc aagagacacg ctaggtgcta atcaattaca acataagtgt 60
ccaagtgcc aattttgtcc cgttttcttt gtgtatgctc ttgtatatag gatcacgtat 120
attactttat ccagctctcc ttacgctgta ggctattcct ctggaaaacc acacagatgt 180
agtctctcatg cagacaggcc at 202

<210> 34635

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-F11

<400> 34635

cgtattgcat atctgttctg agttcttgat tctgcagcg gaccagagt cttttggatt 60
ctaagcttgg ccaagacgag catagtagtc atcagaagat ataactgaag gttcatctga 120
atggcactgt gctggcgcct gtattcgagc ttggggagat gacatattta tgatggtaat 180
acgtgaagcc tatctctttg ggggggtgtac agctagtggg actgagagca gtgcaagaca 240
tagtaagagt gtctgagctg ca 262

<210> 34636

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-F12

<400> 34636

tcgggcccac tatggctcca gtatttgaca gccttgcttc tctccccaag gttacaacct 60
agtgtctgat tcttcagct actccttggg tacatcacag ccagcttatg gtcttcagca 120
cttccaagag ctgcaactcc ctccagcaact tcttacctac tctttcgctg ccagctggag 180
cttatgctca gctctgggca gtgctgatca caacccttct gtgggggaaa agtgagttag 240
agcatttggc tccagttttg gaaggccctt accttaccca taattctgaa ggctcctgta 300
gatctagaac cctccaatat catcacctat ctggctgcaa gggtcataat tt 352

<210> 34637

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-F5

<400> 34637

ctaaacgatc gccagcctct tatctatttc ttatgtgctt agttagtagt acccaatgct 60
ccactcacga cagtgtgaa cgtctactga tatcatgcta ggcgctctac gactgtcaat 120
cattctaact cgatgctgta tgtcatgata ataacctgaa tcctctgagt tacttctaag 180
atcgatatctg agaggggtacc gtcgacttga agcatacgaa taatcttgag cacaagaacg 240
gcagtgcctt agtactttcg aaaagactta ctgctcatct acaaatagat gctgcctaaa 300
taaagatctt aacagatgac tttcagtatt gaggatccat ga 342

<210> 34638

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-F6

<400> 34638

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cctaaggctc aacggtgcta cgtaatatgt tcacttgac gtgtatcgag tgtcatgtaa 120
cctaaactca gcgttgatag ccatacatca tatcagatgg atgaaggta cctgtcatat 180

agtagccctag catctaacct agaacagatg caatgaatac cttgccgcac catgtctgac 240
 tgacttacca cgattatacc agagctctga tgcgactggt cataatggca ctgacaccaa 300
 ataatgaagc ccagatctgt ata 323

<210> 34639
 <211> 189
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-F7

<400> 34639

attatagatc gccagctgca cacctattcc tacggtgggt tgcaattact acacaagcaa 60
 aacttggctg cactgcacta cgttagatat gaggctgcgc gtgtattgcg tgataatgat 120
 gttagtatga ggcattactg tgatgttcaa aatctgtaac ctgagagtta cctgtgagat 180
 aatacctga 189

<210> 34640
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-E11

<400> 34640

cggacgcgtg gggtgctttt cccctatacc gaccctcata aagacaaacc aaaccacgag 60
 agcaacctat taaaaaccta ccagaaggga aacgtggcag cagaagctaa tggagaagaa 120
 cccaaggcaa gctggcccag acatttagcc atgcaccatt ctgttacctt gcgagtctga 180
 taataaaactt gctgctgacc tgctgtgctc acagtagatt ctaaaactgga ctaattattg 240
 tgggggtttta atgagaagcc taagtttgga aatccttaag cagtgatggt gaaaaaaaaa 300
 atgaagccct gaacagttta aaggtaacaa tcctgtttct agaaagagaa agctgatggc 360
 aaaggcacat tccaagtgc ccgaatccag gtgcccccat cctgcaatag gcagtc 416

<210> 34641
 <211> 352
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-F8

<400> 34641

catatacatc ggcagcttgc tcgcgatacc gacggtgctg agcccttact acatgaccca 60
ccttaggcgt tactggggca cgttatacat gcctgagcgc gtgtatcgag gctcatgtgc 120
aggaatctgc gccttagtgc ccattgacca gatcttcagg ttttagggta cctgtgatgt 180
cataaccgag gagctgcatg tgaacagatg ctctgaataa ctgtacgtaa cctgtcggat 240
tcttttaagc tcattatatt aaagtttgag cgttagctca aaatgcactg acaccacaaa 300
atggatccca gatcagtcta ataggacggt tattctatat ggtccaagct ta 352

<210> 34642

<211> 228

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-C5

<400> 34642

gtcaaagacc gccaaactgga acttcataaa gtatgtgctc agttattacg gcacaagaca 60
gcggacggga aactgagact cagtgttctg atgcttagag gagcgtgtaa cagaggcatc 120
atgcactatc tatactagcc agagacgaag cgagccaaat ctctaggtct tggacgtacc 180
tatggcgtcg tatctgaatt acataatcca gagcagatgc taagaata 228

<210> 34643

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-C6

<400> 34643

attggctacg tggaacatg tctgtgaaaa gagtatgtag tggcttcttt caaattggta 60
gatgctgaat atgttcactt ttaaatecca attctgtccc gatcttacag actctactgt 120
acttgaatgg ttaataaaac tgcacagtgc tgtaaaaaaa aataagaata cctatgatat 180
cataaccgac gagcataaat gtgaacagat gctctgaata actagacttg aacatgacag 240
attctattaa atacattaat ataaaagttt gagcagaacc aacaaaatga aataaaaggg 300

gctgcccttt ttaaggattc aaatttaa

328

<210> 34644
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-C7

<400> 34644

caagaccttc taccggaact cgcagctggt tttccaccaa agaactcaca gccgggagac 60
gtacttccag tgccccacct gccaaaaggc cttcctgcgg agctccagct tcatgaagca 120
ccagcggatc cacacggggg agaagccctg caagtgcgac tactgcggga agggcttcag 180
cgacttctcg gggctgcgct accacaagaa aatccacacg ggtgagaagc cctacaagtg 240
ccccgtgtgt gagaagagct tcatccagag gtccaacttc aaccggcacc agaggggtgca 300
cacaggtgag aagccctaca agtgcacccg ctgcggcaag agcttcagct ggagctcgag 360
cctcgacaag catcagagat cccacctggg aaagaagccc cgcccgtagc cgggctctct 420
gag 423

<210> 34645
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-C9

<400> 34645

atttgagacc ttgataagaa tagcaggatg cttcacttca gcagtacata cacaaaaact 60
ggaaccatac agtaaagatt ttcacggccc ttgaacaagg atgacacaaa ttcattgtagt 120
gttctatgta ttacatgtg gaataaaaaa aaaaaaaac tcatataaaa agagaacaga 180
tatgtggtta ccagaggcga gaagtgggag gtaggagaat tgggtgaaag tgggtcaaagt 240
tacaaacttt cagctaaaag ataaataagt agtaaggata taatgtacaa catgatgact 300
gtagttaaca ctattgtata cttgaaagtt gctaagagca tacattccaa aagttcttac 360
ctcaagggaa accaaaaact ttataaccat ataaggtgat ggatgttaag t 411

<210> 34646

<211> 314
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-001-Q1-K1-D1

 <400> 34646

 attatttaat atgatcttca tctatcctta gtgtatcagt gcaccttagg aaccaaggag 60
 gatgactcta gaaaggcttt atgtgctacg taatacatga catagattga aaactatgaa 120
 gagactgccg gatatgtcaa ctagggaatt ctacagacag aattgtaagt gagtgatgaa 180
 gacagacctg actggaacta attagaggat gaagatgggtg tcacgtatta cataccaatt 240
 atctatgggt gatatgggtga gaagtttgac agtgtaatga taaagataca tctgattttg 300
 aatgctagga tgta 314

<210> 34647
 <211> 167
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-001-Q1-K1-D10

 <400> 34647

 caccttgatc ctctactggc atgaaaatca gacagtgggt atcctttttcg ggagggggggg 60
 tctttgggtcc atcgggccact tgccacatgt tgtctttccc ttggctgctg gctcctgtgg 120
 gtcacactgc ttcttactct gaacacttga catgttgagg gcagaat 167

<210> 34648
 <211> 403
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-001-Q1-K1-D11

 <400> 34648

 cagactcgtg gtctgctgac tctcaggcac tgcgcacata ctccatgtat gtacttcgga 60
 gattagcact gtgggtgcta ggggagtgca taactggaac gtgaataact tcccatgtgg 120
 cctagaataa agctgactcc tatctcctga tatgaggttc agggtagcct gatgacctct 180
 agtacctcca actatgaggt ctgggcagtg caaccaagag catggatcag aagagagctg 240

tgaatagcca cgcattgggtg gtgccatctc ccaactgagggc ttcagtcact gacatccctc 300
attccatggc agttggatat aatataacct tacagaatat gggatgtgtt gatgatcctc 360
agctagactg ctaccttgcg cctctgttct cagactgggg ctg 403

<210> 34649
<211> 250
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-D12

<400> 34649

ctctaacgat gtctatgggtg tttcagtttg ctgagcctga ctactagtg tgactcagaa 60
gacggtgcaa tgcagtcac atgttagtgg cctgtgagca aggcatactg ctcttgagca 120
tttcaaagaa aggtcaacag agcctccatt cttggatctg caacttggtc tctgtaagag 180
gtcttcttta aatccaggac ccaggatagg aaaagggttt ccctgacagt ttacaggaaa 240
cctgcaggaa 250

<210> 34650
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-D2

<400> 34650

attaaacaaa agggacctaa tctatcttta gagtctctgc gcatcttagg aaactatgag 60
gtatgtgaca agacaggctt cagaatgcga gtaatacata gcaaatgttg caacctacaa 120
acagcctata tgatattgtct acaagcggct tctacagctg aattccaagt aaatagatga 180
cccaatccaa taatggacct aagaactgaa tggacatttt ttcacagatg acatacacat 240
gactaacaaa cacatggtaa gatgctcaac atcacttatt atcaagagaa tgctgatcaa 300
gaccgctatg atgtaccatt tcacg 325

<210> 34651
<211> 306
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-D3

<400> 34651

gacactcaga tcgagcctgg attatcggtc ctatctatga aaaacatctg caacttagct 60
gaaatgcaaa aggccggcgtt ttgtgacaga gaatacacta acaatacaat gcgctccact 120
gctatctaata tcatgtgggtc cgatcagctg attcacatat ttaacgcgta tgggaatgac 180
agtactagca ttgtggtgcc tgggtatttat gtcacattac agaaggtacg acaaacataa 240
aagctctttt acacgtgtga agaagatgtc agaatattat tgatggtaaa tgctcataaa 300
atggat 306

<210> 34652

<211> 162

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-D4

<400> 34652

atcactgatc tcgatctaga tatacatata ttgtatctta cggtatcatg gtacatggag 60
gcttactgct agtactgagt cgatttctgc gattatagaa ttgttcgata cacatactat 120
ttgtctactt gatagttata caatcatttt aaaaactaga cc 162

<210> 34653

<211> 272

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-D5

<400> 34653

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gatgacggca aagcgtgatc caccttctgt gcttaaagag ctctaacagt gtcacatata 120
ctatgtattc tagatagata tgaaactgtt ttaatgaata aatattgtac tatctatggt 180
agagtagctt aaatactaata acacagatga tgctaagcat ttcacaggcg tcatcgtcgg 240
gttaggaagt cacttactag gagtgccatg at 272

<210> 34654

<211>	426
<212>	DNA
<213>	Zea mays

<223> Clone ID: LIB3068-001-01-K1-D6

gaggaagagg	aggaggagga	agagagctcc	tctgagggct	tggaggctga	ggactggggcc	60
caggggtgtag	tggaggctgg	tggcagcttc	ggagggttatg	gtgccagga	ggaggcccag	120
tgccctactc	tccacttcct	ggaagggtgag	gaggactctg	agtcagacag	tgaggaagaa	180
gaggaagatg	atgaggagga	ggatgaagat	gacgaagatg	atgaggagga	tggtgatgag	240
gtgcctgtac	ccagcttcgg	ggaagccatg	gcttactttg	ctatgggtcaa	gaggtacctc	300
acctccttcc	ccattgatga	tcggtgtgcaa	agccacatcc	tccacttgga	acatgacctg	360
gttcacgtga	ccagaaagaa	ccatgccagg	caggcacgag	ttaggggtct	tggacatcaa	420
agctga						426

<223> Clone ID: LIB3068-001-Q1-K1-D7

aaaaggaact	gggggttcaga	gtgattaggg	gtgggggtgct	cagggccttgc	cagctcagag	60
gcagagctga	ggtgaaactt	caggttgact	gctctctgaa	gctgaattct	tcctgtccta	120
ctacactcct	tctcatgaaa	tgagccctcg	ggaaggctctc	agtgcgctgt	gcatgctgat	180
gaccagccc	ctgtgcacga	ggccaattag	ctttgtagcc	agaggacaac	aggtcaagcc	240
atagtgccgg	gggaggggag	gggggcctgc	tacaggaaaa	ataagaagtg	tgggtcccca	300
gttgggttag	gatgtgtggc	tcttctcgga	aacacgtagc	atccctaagt	cagagctttc	360
tgctacactt	ccggaagagg	ctcgagagct	gaggctgggg	tcctctccc	atgccagggc	420

<223> Clone ID: LIB3068-001-Q1-K1-D9

<400> 34656

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gattaggcct ttctgtggca agttatacat tacttagcac gtgaatcgag gctcatgtgc 120
acgaatccgc tccttactac cattaatcca tatcttatgg tctgaggtta cctgtgatgt 180
aataaccgag gagctgaact tgtacagatg ctatgaataa ctggccgtaa cctgtcggat 240
tctgttaaca tcattacatt agaacctgat cgtttagctca taatgaactg acatcaaata 300
atggaataac aaatctgtct aaagggaccg acgatgtata tggaccgagc taacgaacat 360
cctgcttg 368

<210> 34657

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-E10

<400> 34657

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aatggcgaat ttggtaaacg ccctgctgaa gatatggaag aggaacaagc ttttaaaaga 120
tctagaaaca ctgatgagat gggtgaatta cgcattctgc ttcagagcaa gaatgctggg 180
gcagtgattg gaaaaggagg caagaatatt aaggctctcc gtacagacta caatgccagt 240
gtttcagtcc cagacagcag tggccccgag cgcatattga gtatcagtgc tgatattgaa 300
acgattggag aaattctgaa gaaaatcatc cctaccttgg a 341

<210> 34658

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-001-Q1-K1-C4

<400> 34658

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gtttacaact attagaaagt ggagctgttc caaaaagaaa agatccgtta acacatgcta 120

gtaattcact gcctcgttca aaaacagtta tgaaaactgg acccacaggt ctttcaggcc 180
 accatagagc acctagttgc agtgggtttat ccatgggttc tggcgtgaga caaggacctg 240
 gttctgcagc tgccactcat aagagtacac caaaaacaaa tagaacaat aagccttcta 300
 cccctacaac tgctgctcgt aaaaagaaag acttgaagaa ttttaggaat gtggacagca 360
 accttgctaa ccttataatg aatgaaattg tggacaatgg gacagctggt aaatntgatg 420
 atatagctgg 430

<210> 34659
 <211> 385
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-A9

<400> 34659

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 ataagaggac acattggaaa gcttttgggg aacatcagaa cacaagtgct tataaaatta 120
 aataagcctt acacaaggat tcatattcct tttaatttct aaaggggtta aacttagatg 180
 tagctgatgt gaaagctgct gtgcattgct atgggataca ctattcatgg gccaatgtga 240
 tcaagtcaac cagttccttg gactggatca tcaaaagagg ggtggtgccc gatatactgg 300
 actagataaa tggaccaacc aactaaattc tctcaaccag gctgtagtca gtaaaactggc 360
 ttaacagaga acagctttta cagac 385

<210> 34660
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-B1

<400> 34660

cagggatccc taaggaggag gagttcaagc tgatgtacgg gatgctcttc tctatccgct 60
 cttttgtcag caagaggtcc ccgctagaca tgaaggacgg ctctctggcc ttccaaacta 120
 gccgctacaa actccattac tacgagacgc cactgggat caaggttgct atgaatacag 180
 acttgggcgt ggggcccatc ctagatgtgc tgcaccacat ctacagtgcg ctggatgtgg 240

agctggtggt gaagaatccc ctgtgcccgc ttggccagac tgtgcaaagt gagctcttac 300
 ggtcccgact ggactcctac gtccggtctc tgcccttctt ctctggccaa gctggcttaa 360
 ggaagccctc tacctgaccc ctcataagaa tccctgtctg cctggggccc aacttaacct 420
 gc 422

<210> 34661
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-B10

<400> 34661

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 cataccaata aattcgggtat gtcacactaa cagaatgaaa gataaaaatc atatgattat 120
 ctcaataggt gcaggaaaag ttttgacata atttaacatc tgttcattat aaaaagtctc 180
 aacaaaccag ctggaggaaa gagatgcacc tcagtacata aaggaaggcc acgtatatca 240
 agccccccct aacgccatac tcaaagatga aggactaagg actgttcccc caggaccaga 300
 atcaagacat ggatgcccac tctcatcact tctagtcaac agcactggaa gtccaaacca 360
 gagaaatcag gcatgataaa taaaagtc 388

<210> 34662
 <211> 268
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-B11

<400> 34662

cgacgccaca tgccaccgcg acttcattaa gaacatgac acaggcacat tccatgcgga 60
 ctgcgccgtg ctgattgtgg ccgcatgagt gggtagttc gaggcaggca tcttcaagaa 120
 tgggcagacc cgggagcacg cgctgctggc ctacacgctg ggcgtgaagc agctcatcgt 180
 gggggtgaac aagatggact tcacggagcc cggctacagc gagaagcgct atgatgaaat 240
 tgtcaaggag gtcagcgctt acattaag 268

<210> 34663
<211> 170
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-B12

<400> 34663

aaatattatt taacactggtt atatgcatac acaaatatgg ccggtgatac aatctctggc 60
tggtggccta atcggagagg ggatgttacg tggccgacgc tgtgaagccc atattgtaac 120
tgtgcaagcc tacgccgttc aagcctatgg tggaagcacg taggaagagt 170

<210> 34664
<211> 317
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-B2

<400> 34664

cggacgcgtg gggtcttatg tcagcaaaga tgtaagttt tactagataa gcagaaaaga 60
taaattctcaa atgcagtgtt atttactctt ttcaaaacag ttttcatttt cttaagcaca 120
ctgtacattt ctgtagaacc tgcatttttt cttgcacgct aaaaacggta cttgcgtctg 180
gtgaattact gctgacagtt tccacagaaa ccctgtttca gtggaccaac attgtggcat 240
ggcagctaata gccagcattt tggggaatag cagctaattt acaagtgacc ttgggttggtt 300
aactatgttt gtttgat 317

<210> 34665
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-B3

<400> 34665

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agaaggaact ctacaaattc taagtaactg gctattatta ataagagtaa aaaatctact 120
atacttcaat aaaatatttt aagacaaaaa ataggaagtt gcatgggtata gccgagttga 180
ctcactaaaa ttttattttac ataatttttc taatatgaaa attacttggtt ttcagccccc 240

cttcacaatt gtatttttaaa ttaaggttat taatgtttta acctagatca tataatggta 300
aattaatttt ttaaatttga tatccgtact gaacttggaa aaactg 346

<210> 34666
<211> 393
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-001-Q1-K1-B4

<400> 34666

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aacggcccggt acccgcccgcc cccgcccggc tccaacaggt tcaatgatgc gccgcctcg 180
gacaaggcgc ccagcgcgggt ccagttctgc gagttcctgt ctgccccgga cgtgagccgc 240
tgggcagggc ccatcatcga tgtactcttg gactacgtgg gcaacgtgca gctctgctcg 300
cggctgaagg agcatattga cagcttcgag gactgggctg tcattaaaga gaaagcagaa 360
cctncaagac ccctgggtca tctgtgccgg ctg 393

<210> 34667
<211> 212
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-B5

<400> 34667

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agggtatttt tttgcaacca aacaagtaat aaatattatt tagcactttt atctatttac 120
aaatatacaa cagcttatac actctctgca aggggcagca atcagagagg tgatgttacc 180
tgtctacgc tttgaagccc ttattgaaac tc 212

<210> 34668
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-B6

<400> 34668

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agctggagag cagtgaacc ctccccctgca tgtgttcgtg gctccgcgca gccaggcctc 180
gccttggctc ctctccagat cctacagcag ggccaggact agggcctggc gagcagagcc 240
tctgggctgg ctgctggccc tggcactcag ctctggctt caggggaagca cacagcagt 300
gacggactgt cccaggagca caggggtgat gcaaccaca gctgagaagt gccttaatgc 360
tgaggagctg aaaagtgggg gtggctcaca gtcctggcc 399

<210> 34669

<211> 411

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-001-Q1-K1-B7

<400> 34669

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tgctcggcag ccgcgaaaca gcaactatgc gtgagtgcac ctccatccac gttggccagg 120
ctgggtgtcca gatcggaat gcctgctggg agctctactg cctggaacac ggcatcagc 180
ccgatggcca gatgccaagt gacaagacta ttgggggagg agacgactcc ttcaaacact 240
tcttcagtga gacaggggct ggcaagcatg tgcccagggc agtgtttgta gacctggaac 300
ccacagtcac tgatgaggtt cgcactggca cctaccgcca gctcttcac cctgagcagc 360
tcatcacagg caaagaagat gctgccaata actatgcccg gngtcactac a 411

<210> 34670

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-B8

<400> 34670

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aggggggactc atcttcttgg gagcccgagg ggctttcaag gcgccatgct gctactgctg 120
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 ctgcgctcgg acttctcggc ggcgcgacc accccgctgg agggcacgctc ggagatggcg 240
 gtgaccttcg acaaggtgta cgtgaacgctc gggggcgact tcgaccggc caccggccag 300
 ttccgctgcc gcgtgccggg cgctacttc ttatccttca ctgcgggcaa ggcgccgcac 360
 aagagcctgt ccgtgatgct ggtgcgcaac cgctacgagg tgc 403

<210> 34671
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-C1

<400> 34671
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 agtgatttgc ctgaggagat cacagctggg aagtgatgga gtgagggttc agactgtctt 180
 ccttgccat gcacttatcc attgcctcta ctgtatcgca tgtgagtgtg catgtgtgta 240
 taaaaatgtg cttctgattg cctgtaggag ggttcacacg ttgcagagca ttagttctag 300
 gtagtgtaa cagtttgctg cggccctttc tgtaagtgtt cataggtgtg cacacatata 360
 tgagcaatag tgggatcatg ctgtatatcc agtttggatc tttttgcact ttgattggat 420
 atc 423

<210> 34672
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-C11

<400> 34672
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 aaaaatggaa atctttaata caaactctga gtttctggct tttttaggaa agttaataa 120
 tctgaaatat tggttctgca ttagagctga gattaagtcg ttaactttct cctctgtgtt 180

ggatatatag	ttttcagtgt	gcctgagtc	tacatttcag	tttgtgatat	atagtcagac	240
tgagtgagtt	gatctcttga	tattttctttt	ggttctacaa	tttaaattatt	cttgaattag	300
aatttaattt	ttctctctag	aaaagcattt	tctatacttt	gctctgtaga	acaatgcttc	360
tacaaaaggg	taacagatga	caaggtcttg	acgggtcaa	aaaattggaa	atgctga	417

<210>	34673
<211>	396
<212>	DNA
<213>	Zea mays

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aatgctatgg	tacctatggt	gtatattatt	gtaaaattat	tacataaattt	tagtaaataca	120
tggggtgacg	atttgattat	tacatttttta	gttttcagta	attaaaaaga	tttctgtgaa	180
ttcttaaaaa	aacaaaaaga	aaatcattga	attactgtta	cctggcacaa	atttgctata	240
aaatctgcct	gggtggatga	cccgtatgca	tgcattgggt	ttgaggggcta	gttagccatt	300
ccattgaact	tccatttgaa	agatatgagc	aagctttgtc	ccaatccatc	aagggagtct	360
gtttccaacc	actcatatac	actgaattag	aatatc			396

<210>	34674
<211>	78
<212>	DNA
<213>	Zea mays

aataatcaga tgcgacctaa tcaaacttac aagcctctgt gtaacatagg atactacggg 60
ggtcacaaaa agtcagag 78

<210>	34675
<211>	387
<212>	DNA
<213>	Zea mays

<400> 34675

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tacttatata agagtcctag agtatgcaac tgggtgaaacc agaggctaca atccagtatt 120

actgatacga gacatgtatg attctccact gttgtacatg tatgagcttg gagtactgta 180

tactttaaca cactcaatac taggtagtgg agagtacact gatgtacatc ctaaatgcac 240

cactctgtta acatthttaga tgaaagtaca ccgagctccg atataggcta ctccagataa 300

cgctgcttaa ttgacactcg tagcttatgg taaatagttc ttaagaagtt caaggccact 360

aataatgtat agtacaagta cgcgctt 387

<210> 34676

<211> 419

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-001-Q1-K1-C3

<400> 34676

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gagtacaaca agtctgttta tagtcatect gtttatttaa cttatatgca gagcacatca 120

tgccaagttg gatgagttac aagctggaat caggattgca gggagaaata gcaacctcag 180

acttggtgat gatatcactc taatgacaga aagcaaagag gaactaatga gacccttgat 240

gaaggtaaag gaggagagtg aaaaagccca cttcagactc aatttgaaaa aaaaaaaca 300

naaaacaact aatatcaagg catccggtcc catcgcttca tggcaaatag aaggggaaaa 360

ggtggaagca gtgacagatt tcctcttctt aggctctaaa atcactgggg attatgact 419

<210> 34677

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-A1

<400> 34677

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atgctaaagc tcaaagtcca atactttggc cacctcatgc gaagagttga ctcatggaa 120
aagaccctga tgctgggagg gtttgggggc aggaggagaa ggggacgaca gaggatgaga 180
tggtctggatg gcatcaccga ctcaatgggc gtgggtttgg gtgaactcgg ggagttggtg 240
atggacaggc aggctggcg tgctgcgatt catggggtcg caaagagtca gccatgactg 300
agcgactgaa ctgaaccgag cctcagtttg caaagttaga cagttggaaa tgcaagttta 360
gatcccaggg tttctgactg gaaacttgat atct 394

<210> 34678

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-A10

<400> 34678

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cctgctcaga aatgaatggg cgttacttca gcaatgaatt catcgtggag gtcagcgttc 120
tgcacagcgt gaaccgggtg gcccaccca gccacatgct cagctcccag cagttcctgc 180
accgaggtca ccagccaccg tctgagatgg ctggacacag cctggccagc tcccaccgca 240
actccatggg tcccagtgcg gcgaccctca tgatcgagga gtgcgtgggc tatctggtgc 300
tcatggtcat gctgggtctc gtgcgcattc actgactgca ccgccgcgtc tcggaggcca 360
gtgggcctgc cggagccttc agcgaccca aggatcccga tctcttctgg gatgactcag 420
c 421

<210> 34679

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-A12

<400> 34679

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tgcgccagt ctactcttgg gctgttgaa taaatttctc atcgccaaga aagtgcctta 120
tttttatttt taatttctag cattccttac actctaacc tttcctctgc gcctgttcc 180

tcacattctg ttgacatgta tgtcagcagg actggggttt gtcgtcacgc gtgctggcg 420
tc 422

<210> 34682
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-A5

<400> 34682

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tccatgaccc taactgagcc tttgcttagt tttcaggaag aattgctatc ctttaaatac 120
taccctacaa aactgaacaa atcactgtcc atatctttgg gacagtctcc tttccagata 180
ggccaggaca aggatacata catttcactc atttatcaca tgaagcagta tgtcatacca 240
gaaaaacatg gcttaagaat caaaggagac ctgaattgta gttttgccac cgggtcccat 300
tatctcttca ggcaatttcc tcagtttctc tggatgcaga ttccgcattt ataaaaggga 360
tagtcagacc ctattggtaa gattctgtaa cttggtaaaa atcatatgcc aaacacc 417

<210> 34683
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-A6

<400> 34683

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gttcatgacg gtaagatgaa cacttgctac agctgtcaag cataatcgct gtctgtact 120
tactaagtta gacatgtcag cagatgagct cgctatatct gtcctacaa cctgcctttc 180
agatcgaacg ggacagagat gcatacattg aagtcattta tgagatcaag cagtatgtca 240
tacgagaaca acatgcttaa ccaatcacag gacacctgaa ttgaagtttt gccaccgggt 300
cccattatct cttcaggcaa tttcctcagt ttctatggat gcatattccg tattgataaa 360
agggatagtc aaaccctatt ggtaagattc tgtaactggt taaaattcat atgccaaaca 420
ccc 423

<210> 34684
 <211> 423
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-001-Q1-K1-A7

<400> 34684

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 caagggaccc aaggccctgg cccacccgcc cccccccctg cccccagct gacatggaaa 120
 cccagccct ctgggccccca gccaggcagg gtgagggggc atctctgccca atctacctca 180
 cgggcccaca ctctgccggc catgccatgg atcatggggc gggaaggctc tgggggcaga 240
 aacaccactc cctggtcacc ctctcaccac aactggccc acagcagcca gaggtccccg 300
 ggagaagagg gggcagggag gagggcttgg ccccttcatt gggaaggaaa ccagcacgcc 360
 tncattctcc aggaggtgtc caagaagtgc cttaaattgt ttgcacagac caggtggttg 420
 gga 423

<210> 34685
 <211> 100
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-B9

<400> 34685

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 gtcataaaaa tgcgggcaaaa cctatgatag ggcataagcta 100

<210> 34686
 <211> 339
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-C8

<400> 34686

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 tccaggcggc tgcaggcatc tcaacgtgga ccaactgggtg ggtagagcc aggaaatggc 120

ccacctggct cttcaccccc aaggttgtag cttttatggg agcaggggtg gggggcgag 180
 ggctgctgca gatatgcacc agcctgggat accactatcc accagacctg ttctgacgtc 240
 atgagtgtca aacatgcctg ccagccccgc atgagatgtc atgacaacac tacgcacacc 300
 caataaagtg aatggatgac acacatcaga tacaccaag 339

<210> 34687
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-D8

<400> 34687

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 cggagggcag tggagggcac cccaggaacc ccagctccta cagcagtgtt aaaaccctc 180
 cttcagaggc actggatagg gcgtggcccg tgacagccag gggccactcc actggctttt 240
 ggtgcccact gacccttttc agcagagaca caaaggctc cagaggcacc aaggaggcag 300
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 atctcccc 368

<210> 34688
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-E5

<400> 34688

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 tacagtaatt caatcatgtt attttaatga attaaattaa aggtaagggt taatggctgt 120
 ttcctcctcg ttaaaagtaa ttctgagctc acaggatcga tttaacattg tttagcctac 180
 tggagcaaaa ttcctgatgc aggaaatgtg tcaggctctg ccaaagtgat cggaatagaa 240
 cctatgctaa ccttcctata agcagttacc tgtgggaatt atgcaaaaaa tcaatctcaa 300
 ctcagggtga aagactcctt tacgcatact gtattagtta ctaaagtatc tgatatctac 360

agatgtatat taaaatagga tattcactct

390

<210> 34689
<211> 145
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-F3

<400> 34689

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tgataatga aaaaaggaac cccaacaaaa ccacacattg tattcaaaaa acaacggggg 120
cccataaagc ggaaaaaaca tcacg 145

<210> 34690
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-F9

<400> 34690

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cgggggtcgg cactggggca agttctacat gcctgagcgc gtgtagtgag gctcaggagc 120
aggaatccgc gccttcgtgc ccctgagcca gtccttcggg tctttgggta cctctgatgt 180
cataaccgac gagcagcatg tgaacagatg ctctgaaaaa ctgtacgtca cctgtcggat 240
tcttttaagt acattatatt aaagtttgag cgttagctca aaatgaaaag actaatagac 300
gaaataaaca ataac 315

<210> 34691
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-G2

<400> 34691

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ggagatgtaa attttataag gctgactctt actaatcact atttcccctg tggtttggtta 120

tcagtacaat tctctgttgc ttaatctaga gctatgcaca ccaaattgct gagatattta 180
 gtagctgata aagaaacctt taaaaaaaaat aatgtaaata aatgaaatat agataaacta 240
 tgagataaat atcattacgg catgtaatat taaattcctc ctgtctcctc tgtcagtttg 300
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 a 361

<210> 34692
 <211> 304
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-H5

<400> 34692

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 cacaaccccc cttaggatga aaatgaggaa tagtcaacgt aacgccccaaa cgtgggtcctt 180
 taatcccctt ctaattctga atatttcgcg tgggtttact ataatgtcta ttaatacata 240
 tccttaatga tgataggatt agacaaaaaa agtgaaaatt ttcgtatcta aatcttcaaa 300
 tcgc 304

<210> 34693
 <211> 153
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-A8

<400> 34693

cccacgcgtc cgaaaaaaaa aaaaaaaaaa attaaaaaaaa aaaaaaaaaa aaaaagaaaa 60
 aaagagaaaa ttaaaaaaat aaaaatatca caaacttata tacactaaca tacaaaattt 120
 tatctcttct atattttcac ctaaatttaa tta 153

<210> 34694
 <211> 257
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-A9

<400> 34694

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tctgactctt tggaaaaaaaa aaaaaaaatt taaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
agaaaaaaaa aaaaacaaaa aatcataaaa aaatccaaaa attacataca catacataca 120
acaatataaa ctcttctata atatcaccta aattaaattt actttccatc tttttacaac 180
ttaattttctt ttaaaacctt ttctttaccc aacttaatcc ctttgcaata catccccctt 240
tcttcatttt ccttaat 257
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<210> 34695

<211> 102

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-B11

<400> 34695

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gaaaaaatga aaaaaaaaaa aaaaaaaaaa aaaaaataa aa 102
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<210> 34696

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-B12

<400> 34696

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cctcactgtc acgctcatcg gagcagcgac cgccgtgccc actgttattc ttactttccc 120
gttctacccc acctattgct cctccggctc ggcagacacc tctgactcgc tcttctgtga 180
caactggatg ctgcccgtag agacagccaa cacaggcccc tgaatctcca taccctcgcg 240
ctgtggagct tcccccaaca ctacatggac agacctcact acacatatga ctctccgctc 300
acctacgccg acgccctaac cttcacctcc aa 332
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<210> 34697

<211> 301

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-002-Q1-K1-C5

 <400> 34697

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 ccacaaatgc atggatgggt acatggatgg atggggcaca ccaactctat gatcgtatcg 180
 accgtgcgac attgtatggc aatgcacggc gcgcggcgca ggagcgtatcg atcgccaccg 240
 tagtagcgcc tagccttgtg atctcaaatc tgaacgattg tgactgactc tatccttcct 300
 c 301

<210> 34698
 <211> 115
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-002-Q1-K1-E4

 <400> 34698

 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa tttaaaaaaaaa ataaaaaaaaa aaaaaaaaaa 60
 agaaaaaata agaaaaaata aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 115

<210> 34699
 <211> 51
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-002-Q1-K1-F6

 <400> 34699

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<210> 34700
 <211> 286
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-003-Q1-K1-D2

 <400> 34700

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gctggggata gcctttgagc aggccactac taccatgttg attttgtaac agcttgtgca 120
gaatcataag aaaccctagg acttgaccgc agccccttgc gcctacatgt atgcgagcat 180
tctacttggc agttcttgta aataatataa ccatacagta acttagcatt caaaatatat 240
aatgttatgg tattgaaaag aatatggcac gtaccattgg ttgaaa 286

<210> 34701
<211> 83
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-G10

<400> 34701

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aaaggaaggg ggaaaacaat ata 83

<210> 34702
<211> 263
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-G5

<400> 34702

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agaaaaaaaa ataaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaaaaaaa aaaataaaaa 120
aaaaaaaaaa taaaaaaaaa aatgttattc catttaaaag atacaatatt aacaatcctt 180
atattccaaa tataaatttt ttttttttgt tatttttaaat ttaattaatt gccctttttt 240
ttaaaatttt taaattttga aaa 263

<210> 34703
<211> 178
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-004-Q1-K1-A4

<400> 34703
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<210> 34704
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<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<211> 91
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-E10

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aacggagggg tagtttcaac gatatgcaat t 91

<210> 34706
<211> 85
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-B8

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agaaaaaaaa aaaaggaggg gaaaa 85

<210> 34707
<211> 452

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-006-Q1-K1-C11

 <400> 34707

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 gctaattggtg gtgcataccc tccggacctt agtctcatca caaatgcaag gcacaatggt 180
 cagaactatg ttttcgctct tcttactgga tatcatgata cacctgctgg tgttcagatt 240
 cgtgaggggc tgcactacaa tccctacttc cctggtggtg ccatagccat gcctaatatg 300
 cttaatatgag gagctgttga gtatgatgat gggtcacctg caactgaagc ccaaatgggt 360
 aaggatgtcc tatcattcct ttcgtgggca gcttaacctg aaatggaaga gaaaaaactg 420
 atgggagtga aatggatcct tctactatca ct 452

<210> 34708
 <211> 244
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-006-Q1-K1-E5

 <400> 34708

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 tgttgtgagt tgtgacgaac aaaaaagggt gtgggttggg gtggtccggc gcaccgggaa 180
 atgacagggt ttaatcaact tatattaacc tgatgaggtg ccaaaaaaaaa aaatcaaaac 240
 ctat 244

<210> 34709
 <211> 64
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-006-Q1-K1-F7

 <400> 34709

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aacc

64

<210> 34710
<211> 60
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-H10

<400> 34710

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<210> 34711
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-A2

<400> 34711

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ccagaaccta ggccaggggc aaagcctgag gcgaaaccga aaccagatcc aaagccagag 120

ccacaaccaa agccagagcc taatccagaa ccaaaaccag agccaaagcc agagcctaag 180

cccgaaccaa aaccagagcc aaagcctgag cctaaacccg aaccaagacc agaaccagaa 240

ccaaagccag agcctaaacc tgaacaaaaa ccgaaaccag aaccggagcc acaaccaaag 300

ccagagccta agcctgatcc aaaaccagag cctaaacccg aaccaaacc agagccccaa 360

ccaaaaccag aacctaacc cgaacaaaaa c 391

<210> 34712
<211> 317
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-A8

<400> 34712

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agggaagga atataaaaaa atccaaacaa aacaaacaca tactttcaac ttcaattact 120

cttctataat atcacctaaa ttcaattctc tgccttcat ttacaacat cttttctttt 180

aaaacccttc ctttacccaa cttaatcccc tttcaacaca tccccctttc accagctttc 240
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 atttcaactc tcccttt 317

<210> 34713
 <211> 292
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-B1

<400> 34713

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 attccctcct gctgacatgg ggtgttggtt ttgcgacaaa tttgtgcttc tatccgccgt 180
 ggtcgacctt ttgttcttgc aatgaggaat tttcgtgac aattgatgca acatgatatt 240
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<210> 34714
 <211> 180
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-B2

<400> 34714

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 tctgctttcc gatacagatt ttggaccaat caaatcctgc attgtgttgc ttgcgagcag 180

<210> 34715
 <211> 356
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-D4

<400> 34715

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 ttctactccc ggggaaggcc ccctactggt cegttectct tccgtcccca cgtccggtac 180
 tcttcgtacc gctttctcct ttctagcagc tcgaacattc tctcagcatt caacgggttc 240
 ggtgcctata cctcctgtcc caaccctcat agcctatcct tttcccgaag ttacagatcc 300
 tcttttccgt ctttccttga ctacattttt ccattggcca tattcttttc accttt 356

<210> 34716
 <211> 200
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-E12

<400> 34716

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 attcacacat cattgttaag caagtaattt ttattactca taattatata ttgatgtcat 180
 cattgttact taaacattca 200

<210> 34717
 <211> 250
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-E3

<400> 34717

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 atgagatgag atccattgaa gccgacagcc gaagggtggg tgtaaaatat ggagtccatg 180
 agtgtggcgt ctcttctgtc ccgaggtgaa tgacacatac tgtagatcgt tgctctaaaa 240
 aaccaaaaat 250

<210> 34718
 <211> 82
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-E6

<400> 34718

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gcgatgcaat tgcaatgcaa gc 82

<210> 34719

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-E9

<400> 34719

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gtgtacaagg ggaagaagat gcccggggagg atggggaggaa ccaagaccaa gatcaggaag 120

ctcaagattg tcaagatcga caacaacctc cgggtgctca tgatcaaggg ggccgtgcca 180

gggaagcccg ggaacctcct ccgcataacg ccagccaaga tcgtcggcaa gaacatcccc 240

aagaactaga cttctttttt ttcagggggg tgaatgttga gtgtttgtgt ttgtttacct 300

gctacaaact ggatgtaatc ctttgccaat ttccagtttt tgaacacatg caacttcaga 360

ttagtaaaac tataacctgt ac 382

<210> 34720

<211> 93

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-A10

<400> 34720

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taggatatga taacgaataa agtgcagaaa aat 93

<210> 34721

<211> 53

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-B4

<400> 34721

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<210> 34722

<211> 372

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-008-Q1-K1-C10

<400> 34722

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tcgagggcgg gcccgccgcg ggggcgtgcg gctcgggccg ggcttgggagc gcaatnnngc 120

acggggccctt tggnnngcgc gaacgcccn ntaacgtggg nntcggggcg ggcgaaacga 180

gcagaggggc gccggttggc ttagcttggg attctnnga cttagagnng cgttcagtca 240

tttaatccgg cacaacggta nngcttcgcg ccactggct ttttcaacc aagcccgcga 300

tgaccaattg gtgtgaatca nnacggttcc tctcgtaacta ggggttgaat taccttatcg 360

cggcgcggtc at 372

<210> 34723

<211> 55

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-C3

<400> 34723

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<210> 34724

<211> 60

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-E9

<400> 34724

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<210> 34725
 <211> 74
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-008-Q1-K1-F3

 <400> 34725

 aaaaaaaaaa gaaaaaaaaa aaaaaaaaaa taaaattaaa aaaaaaaaaa aaaaaaaaaa 60
 agaaaaagaa aaaa 74

<210> 34726
 <211> 160
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-008-Q1-K1-F8

 <400> 34726

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 catagtctta ggtcaaattc ttgcatttat gaaacactaa catctgctaa agcatttgcc 120
 atggatgttt tcattaatca caacgccata acttggacaa 160

<210> 34727
 <211> 57
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-008-Q1-K1-H6

 <400> 34727

 aaaaaaataa cacaaaatac gattttacaa ttatataaaa aacaataata aacaggg 57

<210> 34728
 <211> 166
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-009-Q1-K1-B3

 <400> 34728

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acaaaatagt gcttgtagt tgctgaattg tccatttagg caacaaagt tttgaaaacc 120
acaatattta aaatactaaa taaaaaaaga aaaaataaat gaattt 166

<210> 34729
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-009-Q1-K1-C8

<400> 34729

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gctatacaag tctattcttc caaatggggt gcgctgcaac cggagcagtg ctaacataac 120
atactaccac ctattccatg aaaactcgag tggagtggta agcaacaatg gtgatccctt 180
gttttggggg atctttctgt acacgtgtaa ttatcgtaa ctcagttgtc tatctatagg 240
cccatttcag cttgagtttt atggataact cggcgatcta tataggctca gtcacctgc 300
aacgcacttc agttcaaaaa cttegatggg agcaaagtgt tgtctgttca aagttgtttg 360
tatc 364

<210> 34730
<211> 80
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-009-Q1-K1-D3

<400> 34730

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aaatttaatg atgacggcac 80

<210> 34731
<211> 235
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-009-Q1-K1-F5

<400> 34731

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cctgaccacc cacanaccaa taanttctta ncttgccacc aaattcttcc gggagttcaa 120
aataagcata tatcccgata ttcccaaata ggtcaacctt tttaactgcc tgctgaatcc 180
atgagcaggc tagagacaac ctggcgaact taaacatctt attagccaca ggaaa 235

<210> 34732
<211> 52
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-A10

<400> 34732

tacgtcattt ctcttctata cagtcaccta cattcaatgc actgggtcaa ga 52

<210> 34733
<211> 305
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-A8

<400> 34733

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ctgtaaaatt taataacaga tcaaccaccc aaccctaaact acaacctaac aaatcttcca 120
tcctcatcat tccccccaaa cccaaccttt tagccaaaaa cacattcatc gcacagctta 180
ctatccacca cataacccaaa atatccataa aaatatagct attacactta caccctcaaa 240
ctcccactta tcctacacct cttaaagtcatt ttcacaaaat cgtactataa tcaaactcaa 300
cacct 305

<210> 34734
<211> 439
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-010-Q1-K1-B3

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catgagcgat ccaccttcag ccgacaagct taaatctccg acaggctctt cttctggaga 120
 tgggtttgat gttatgactc tagccacaga tcagcctgct ggaccagttt cagcaacgcc 180
 taaggtagct aatgccagag atgatgataa gttcaatgat ggcatgtacg aagacttggtg 240
 tgtagatgat gctgacctta cattcgagga ttatgaagag ctatttggtg cctctcacat 300
 tcgaacagag gaactctntg atgacgctgg aattgacggt tacttcgaat tgaaagagac 360
 accacctttt tatttcaacg agcagcccaa agctatgcag atagaatgtg gcaacgtggt 420
 atcagctgat tgtgcgatg 439

<210> 34735

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-D4

<400> 34735

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 gcaacactag ctcacttttag gggtcgacca caaacaaaat aaagcgcgct gtcaagcttg 180
 aagaaatgag aaactaaggg tggtagtagc gtactatata gttagctatc actagacctc 240
 aacttgatgg agaaccaccg ggatgagctc atcagtgtta gtgtggagaa tagttgcagg 300
 agtagttgat gggcacgtgc agacgagtaa ctctcttgc gaggggctt 349

<210> 34736

<211> 91

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-F4

<400> 34736

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 aaaaaataa ttaagagaaa aagtgagaca t 91

<210> 34737

<211> 84

<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3068-010-Q1-K1-F5
 <400> 34737
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 agagaaaata aaaataaaag aaag 84

 <210> 34738
 <211> 55
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-010-Q1-K1-F8
 <400> 34738
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 <210> 34739
 <211> 71
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-010-Q1-K1-G8
 <400> 34739
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 gaaaaaaaat a 71

 <210> 34740
 <211> 74
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-010-Q1-K1-H8
 <400> 34740
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 actacctttt aaat 74

 <210> 34741
 <211> 58
 <212> DNA

<213> Zea mays
 <223> Clone ID: LIB3068-011-Q1-K1-A8
 <400> 34741
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<210> 34742
 <211> 294
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-012-Q1-K1-B7
 <400> 34742

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 aaatgtattc gatagacacc cagaagcaga aggtaaaata agagggtactt tattgcttac 180
 tctatctttt atggaagcta taacaattta tggactgatt gtggcactag cgctttttatt 240
 tgcaaaccct cttgggttaat cctagtgatc aaacaaccac aatatgaacc actt 294

<210> 34743
 <211> 409
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-012-Q1-K1-D2
 <400> 34743

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 acctgcagaa aggaagtatg ccgtactttt gtgcttcagc agcagcaatt tcgagtcgaa 180
 gccaaactcta tggggcctgg tgacggtgct tggtttatgg aatgggatgc agctgcgcag 240
 tcgatatgga tcagcacctg gacttgtatt tgtgctgtac atcccggccg ttgtacatga 300
 actaactgta ccctgtgacc tcaccttgtg tacataaatg gtctttattt attggaaaaa 360
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aatatataa 409

<210> 34744

<211> 366
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-012-Q1-K1-D7

 <400> 34744

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 gagagaataa cgcagagctc tctgctcccg gcctgtcttc tgccgtcccg gccgtttaat 180
 ttactagtgt gttcgtccta tatgttttagc agcagcaggt gtattgtgcg ggtatgtaat 240
 ggtattgcaa ctatattggg tgtaaaacca taataaatgt gggcaaatat gcaaggaaaa 300
 aaggcttcta cttctaaaaa aaaaaaggca taaaaaagca caacgcccac gactctatgc 360
 tcaaac 366

<210> 34745
 <211> 65
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-012-Q1-K1-E3

 <400> 34745

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 gggag 65

<210> 34746
 <211> 402
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-012-Q1-K1-F3

 <400> 34746

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 tcctcggagc acgatgaagg ttgttgctgc ctacctgctt gctgtcctcg ctgggaatgc 180
 cagcccctcc gctgaggatt tgactggcat tctggagtca gttggctgtg aagttgacaa 240

tgaaaggatg gaactgctgc tgtcccaact gagcggtaag gacatcaccc agctcattgc 300
 cgcgggcaga gagaagtttg cttcagtcct atgtggcggc ggcgggtgtgg ctgttgccgc 360
 aggtgcacct gctgctggcg gagctgctcc tgcagctgag gc 402

<210> 34747
 <211> 458
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-H4

<400> 34747

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 cacatcctga cttcctctac atgaaagcat acgtagtgc cacctattgt tttcttctca 180
 gcggacccaa tgagtaacta caccatgtta cgaataaaag cgagggaata tcggatgagc 240
 aacttttgcg gctatatgaa atgcactttg aaaaatcacg tcttgaggac gaaaaacacg 300
 ataaaatgga cttgcctact tttgcaccga ataaactcat aagtaatcca atttccgagg 360
 acacgaacgg aagtaagctg attttggtat tcgtatcgga attagccaga agaagaaacc 420
 atgttcactg cccttcattc tctggcctga ctgcctta 458

<210> 34748
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-B12

<400> 34748

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 cgtacggccg cgcgcccgtc gaccccgatc cgtacggtcg acctccgccc cagtccgcgt 180
 acggtggggc cggggacgcc tacggccaca gcggccaagg ctacgcgccc ccgcccgcct 240
 acggcgccgg gggcgggtac ggcaacgtcg tccacgtcgc gcacgaggtc ggcgacgaga 300
 ggccttacta cggcggcggc ggcggcggtc ttggtggcgc ctacggaggc ggtggctccg 360

agtacggcca cgagggccga ccgcaccacg gcggcgccgg atcccagtac ggccacgaga 420
cacgcccga cc 432

<210> 34749
<211> 59
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-B8

<400> 34749

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<210> 34750
<211> 125
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-F1

<400> 34750

aaaaaaaaa aaaaaaaaaa aaaaaaaata aacaatataa aaaaatccaa aaattacaaa 60

cgcatgcata caaaataaaa aaggctacta taaaatcacc taaaatacaa ttcaatgacc 120

gtaca 125

<210> 34751
<211> 433
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-013-Q1-K1-H12

<400> 34751

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gagctactaa aggcacaagc cgacatatgg cggctcagcc tctcctacct cacgcccctg 120

tcactgaggt gcgccgtgga gcttggcatc cccacggcga tctaccgcca tggcggggct 180

gcctcagccg ctgagctggc cacggcgctg tctctcccct ccactaagct gccgttcctc 240

cgccgcctgc tgcggctcct cgccgcgtcg ggcgtgttca ccgtcgacaa gcagagcacg 300

gaggaggagc ggtaccgcat cagccccgtg tctacctcc tgggtggacg catccctcac 360

gaggaccaca tgaaccacac cgctctggtg ctcacctgca cctcgacgcg ctacatcgag 420
gcgngatag ggc 433

<210> 34752
<211> 224
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-H4

<400> 34752

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ttgggatctc aacacacacg tcggtctcct gttcatttga ttcattcttt tacataatga 120
tgcaatgcaa ttattgagat ttcgaatcta aaaaaaacia aaacaaaaaa aaaaacagag 180
ataatcacia agacaagaaa taaaatgaat atcaaaaaac taca 224

<210> 34753
<211> 92
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-B12

<400> 34753

gtagttaggg gccctaattg tagtagcttc tcagtttggt catcgccgtg ggattcattg 60
ggcaagatat atgtatgaaa tgaataaata tt 92

<210> 34754
<211> 68
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-B4

<400> 34754

accacgcgta cgaccacgcg tgcggttgag accgaaatgt agagattgag gagattcttc 60
ggaaaaga 68

<210> 34755
<211> 449

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-014-Q1-K1-E10

 <400> 34755

 aagcaagcca tgtggaggag ggcttttagcg atggctcctgt tcatggctgg cgccgcgctg 60
 ctgccggggg ctgccggcgc cggcgcgcag cagggcggtgt ggagcatcat caccggccc 120
 atgttccaga gcatgctgag ccaccgcggc gacagcgggt gccagggcgc cttctacacc 180
 tacgacgcct tcatcgaggc cgccagcaag ttccccggct tcggcaccac cggcgacgag 240
 cagacgcgca ggcgggagct cgccgccttc ttgggccaga cgtcccacga aaccaccggt 300
 ggatgggcga ctgctccgga tggaccgttt gcctggggat actgccgggt gaaggaacag 360
 aaacagacgg acccacccta ctatggacga ggaccatac agctaactca taagtacaac 420
 tacaggctcg ccgggcaagc gctgaacct 449

<210> 34756
 <211> 381
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-014-Q1-K1-E11

 <400> 34756

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 ggcgccgggg ctgccggcgc cggcgcgcag catggcggtgt ggagcatcat caccggccc 120
 atgttccaga gcatgctgag ccaccgcggc gacagcgggt gccagggcgc cttctacacc 180
 tacgacgcct tcatcgatgc cgccagtaag ttccccggct tcggcaccac cggcgacgag 240
 cagacgcgca ggcggtagct ctccggcttc tatggccaga cgtcccacga aaccaccggt 300
 ggatgggcga ctgctccgga tggaccgttt gcctggggat actgccgggt gaaggaacag 360
 attcagaccg acccacccta c 381

<210> 34757
 <211> 398
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-014-Q1-K1-F4

<400> 34757

gcaatgaaat cgatccatac tatacattac atggtacata catagacaga aaagaaagaa 60

aaaaaacaga gaggaacacc ccattctggtt caccgacgtt acccagaaga aaccaccaac 120

acagacagta gattgctgct acgctcttct ttcggcttca atctgcgaag caaggcgtct 180

gatcccggtg aaccggacgt ccctaagaag ctaaccaccc caccgcaatcg agaactgact 240

cgttcgccgg cagcatgcaa atcataggcc gagcgcgccg agcggcgtct tgcctgccc 300

ggcctcgaag tagaaggcga gcatggcaag catggcgatg cgggcgtgct tgatctcggc 360

cagcttgagc cgctcgagct tgtcgacgtc ggggatgt 398

<210> 34758

<211> 65

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-G4

<400> 34758

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa ataaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

aagaa 65

<210> 34759

<211> 56

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-H2

<400> 34759

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<210> 34760

<211> 236

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-B10

<400> 34760

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cgacagcgac tgagatctgg tgtcgcagca caggtgcaac acaagtatgc ttgctggatg 120
gaggattcat accagctgat gctgatgtag tgtttctactg gtgtcatgca tgcattgtatc 180
gtgctattat aatcaaaaag aaaaaagaaa taacagtcag ggatgggttg tttgcc 236

<210> 34761
<211> 58
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-B11

<400> 34761

cccacgcgtc cgcgagcgcg tgggtctgaa gtaattgagc taaggaaacga aggtcttg 58

<210> 34762
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-C4

<400> 34762

acgcctacgc gtacggagag agagagagag gggaagagag agagagagag agagagatag 60
atgtggtaac gcaagaactg ttcttatgca tgcagcagcc ataagcattg ctactagggt 120
ttcatgcggg gcgaagcaact tgggtctctgc cgtctgaacg ccgtcgggaat ctgcgaggcc 180
taccagagct gcgtccgtcg tcagataagg cagccgccgg cacggcaatg ccggatccgc 240
ttgctccgta ccagctcct cgggcgccat tcacgccgtc caatggggcc cagagccagc 300
tcgtctgcac cgggtgccgg aacctgctca tgtaccc 337

<210> 34763
<211> 79
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-D11

<400> 34763

cggacgcgtg ggcgagcgcg tgggaaaaaa actgaaaact ataatatata gaatatatat 60
ggaaggggaa acatgaaac 79

<210> 34764
 <211> 153
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-015-Q1-K1-E3

 <400> 34764

 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa tataaaaaata aaaaaaaaaa aaaaaaaaaa 60
 aaagaaaaag ggcaaccaat ctataggata ccaaacttac atacacttac atgcaacata 120
 atagctcttt tatagtgtca cctttttttca att 153

<210> 34765
 <211> 306
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-015-Q1-K1-F2

 <400> 34765

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 cgtctgggtct ggtgggtggta gtggggcgcg gtgccccatg tgtgccgctg cagcttgtgt 120
 ctctgtgttg cttcatgttc tctgtctatc tactctcatg tatggcagtt tgggtacggg 180
 tatatcaagc atgttcagtc ttctttgggt gaaaagttgg ctgcgttgtg ggggtatgat 240
 tatggatatg atcttcttta tagatgcagc cagttgttca aaaaaaaaaa aaaaacaagc 300
 aagcaa 306

<210> 34766
 <211> 267
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-016-Q1-K1-A11

 <400> 34766

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 atataaagac aagctaggag aggatcatga tgaggaagag agagagtgaaggaggatggga 120
 gactgggcat ctccccccac cattcttggc gagatcctca tcgatgttac tggctggttt 180

caaataacat cctgtaataa aatttcttct ccaaagtaaa aaaaaagatg aagaaggtag 240
acgaagacaa agaaaaacaa acaaacc 267

<210> 34767
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-C5

<400> 34767

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ggtgcatcat ctaacggacc gacagatgca ctacgagagg cacgacccaa agaacgaccc 120
atagcacacg cattggcaca acatcgaggc gggcgctgcc gtgatcactg ccctattcac 180
tgccaactat gaattcaacg agcacgacga caagaacgcg gccaaagacg cggcgaagga 240
cgcagacgcg gaccacgact ccgaccgtaa caaggagtgg cacaagaagc accgatcgtt 300
ctgctgatca atctatcgat tgaactatct act 333

<210> 34768
<211> 253
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-E3

<400> 34768

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ggagggaggg aacaacgtct cagctggatc tatttttttt tatgagatag tacagagtag 120
acatgggcta gcggaacgca gcacgagaac gaatccacag gagggtaaaa aaaaccgccg 180
ctgctccttt gagaggaggt cgggccatca gaagagtgac gaggcgatcg cggagaccac 240
ggcgagcgcg acg 253

<210> 34769
<211> 386
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-017-Q1-K1-C5

<400> 34769

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ctcgccgggg ctgccggcgc cggcgcgag cagggcggtg ggagcatcat caccggccc 120
atgttcaga gcatgctgag ccaccgggc gacagcgggt gccagggcgc cttctacacc 180
tacgacgcct tcatcgaggc cgccagcaag ttccccggct tcggcaccac cggcgacgag 240
cagacgcgca tgcgggagct cggcgnctct tcggccagac gtcccacgaa accaccgctg 300
gatgggagac tgctccggat ggaccgtttg cctggggata ctgccgggtg aaggaaccag 360
aacagacgga cccaccctac tatgga 386

<210> 34770

<211> 74

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-F1

<400> 34770

aaaaatggca aacggacata cgcattgatg caacagtcatt aactcttcta tagtgtaacc 60
taaattcaat tcat 74

<210> 34771

<211> 124

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-F8

<400> 34771

aaagaaaaaa aaaaaaaaaa aaaaaaaaaa taaaaaaaaa agacaaacaa tctaggagaa 60
tggaactta caaacacatg catgcgaaat caatactctt ctatattgtc acctaaatta 120
aatt 124

<210> 34772

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-H1

<400> 34772

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ttataaacg gccagccaa actccccacc tgacaatgtc ttctccctg atcgggcctt 120
ctaagccgta ctttttatcc aaaatgaggt tctgttcccc gcttccgacc caccgaataa 180
gtaaaataac ttttaaagta ctgttatttc acttgcacct ctaagctctc acttattcta 240
cacctttcaa gtcatttcac atattccaac tatagtccag ctcaacattt tctttttttt 300
cacttatttt ccctaacccc ttccctttg ctttggtttc tct 343

<210> 34773

<211> 90

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-H12

<400> 34773

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aaggaaaaaa aaaaaaaaaa aaaaaaaaaa 90

<210> 34774

<211> 84

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-C1

<400> 34774

caagagttgt acataaacta ctattgtccg aagcattaat aaagagagag ggggcaaag 60
gggcgttggt tttaaaaagg gaag 84

<210> 34775

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-C10

<400> 34775

ggatgactta tctgtcgact tttccactat caaccccaaa aaacccaact ctgcgttacg 60
 taaagttgcc agagtacgat taacctctgg atttgaaatc actgcttata tacctggtat 120
 tggccataat ttacaagaac attctgtagt attagtaaga ggaggaaggg ttaaggattt 180
 acccggtgtg agatatcgca ttattcgagg aaccctagat gctgtcgcag taaagaatcg 240
 tcaacaaggg cgttctagtg cgttgtagat tcttatccaa gacttgtatc atttgatgat 300
 gccatgtgaa tcgctagaaa catgtgaagt gtatggctaa cccaataacg aaagtttcgt 360
 aaggtgactg gagcaggcta ccatgagaca aaagatcttc tttctaaaga gattcgattc 420
 ggaactctta tatgtc 436

<210> 34776
 <211> 71
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-E5

<400> 34776

aaaaaacata aaaaaaacaa aaaaaaaaaa ataaaaaaaa aaaaaaaaaa aaaaaaaaag 60
 gaagggaaaa a 71

<210> 34777
 <211> 144
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-F6

<400> 34777

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 acgggcaatc ataaatggct caggcttaca tactcatact ttctacatac ataattcttc 120
 tattacctca ccttatttca tttta 144

<210> 34778
 <211> 64
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-G7

<400> 34778

ctgacgcgtg ggaaaaaat aaaaataata attaaaaaaa aaaataaaac ataaaaaaag 60

aagg 64

<210> 34779

<211> 209

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-H1

<400> 34779

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ccggccggag actgcggaag ggaggcgtga cgccgtccgc ccgttccaaa caacggccgt 120

ccgccttaaa ggacccatgt ttacgtccgc gctcatcaa ctgcatagct cttcgaatag 180

ggtctcctaa gttcaataca cgggccact 209

<210> 34780

<211> 73

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-G6

<400> 34780

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gttccacttg gca 73

<210> 34781

<211> 147

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-B12

<400> 34781

ctcacacgga ctaacacgat ttcaggcgcg tgtcaacaac acagatctag tcttatctat 60

gggagtccta tgcaagccca attatctcat ggacacattt aaaaatgaat gcatattttt 120

aatgaataat gggtcaaaaa tttaaatt 147

<210> 34782
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-C1

<400> 34782

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tgaagcatga gggcgtcgat taatcgcccc ccgacgccga gcgcggagga ggatcgggag 120
cggcagcctt ctctcggaga gatcattaac atcaagttgg tagagactgg ggagaaggag 180
aagctaattg agctaactccg cgagcgactc gctgagtgcg gctggaggga tgagatgaag 240
gcactctgca gggcatatgc aaggaagaaa ggaagaaata atgtgacagt agatgacctc 300
attcatgtta ttactccgaa aggaagagca tccgtgcctg attcagtga ggcagaactc 360
ctgcaacgca tccggtcctt ccttatgtct accacacttc ggtagtcatt tgtcgcgtcg 420
gttgagcct atatgtaaga tcattgggaa gtcgac 457

<210> 34783
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-D7

<400> 34783

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cagtatgttc cgacaatcac taatcatact caagtttggt gggttcctaa tgttgttggt 120
gtacatgaaa aggaagggat agaggttgtc catctagctt ctggacgtac aatatgcaag 180
cttcatttaa atgaaggagg ccttcatgct gatattaatg gagatggagt tctggatcat 240
gttcagggtg ttggtggaaa tggattaaa gagcagactg ttgcgagtgg atcaatggaa 300
gtgctgtacc ctgttgggca atcgctacat ccggtgtgcc agtgcgggag caacttttta 360
acgtctctat ct 372

<210> 34784
<211> 369
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-E1

<400> 34784

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tccctgaaac tattccaagg aggagcatga ttacacacca gtgggggaaaa acacacacac 120

acacacatag aaaatggatc aaatttgccg gcgacaccaa caagcctgag atcactgctt 180

ctctatccta ccagagatct aaagaacagc atgacattat acagataggt tcatgacaaa 240

gtaacaagac aggcagttgg gagttgcatg gacagggtaa gtagtaatac actgattaat 300

actccagtta cgacagttca caggcaaacc cccttacact ctgataagca tggcatgagc 360

catgaccat 369

<210> 34785

<211> 100

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-E4

<400> 34785

gacgcgccct gttacggtgc attaatcgct gcgtgtgttg tggttactct catcgtgac 60

gcttacagtg gtcagttgcc tatagtcctat ttcttttgat 100

<210> 34786

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-H1

<400> 34786

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gatgtcccag atcctagaca ccggcctcga ccgccacacc ctgtcgctgc tcatggcgct 120

ttgcgaccgc ggagccaacc ccgaggcatt ggccgccctc gtccgcgagc tctcctctgc 180

tgctcccca acctccgccg cggcttcctc ccccgtagc aacggcgccg cggggccggc 240

ctcggaatt gcgcccacgt tctcctccg ccttcgccgt ccctaggggtg ctgctaaaaa 300

gtctgaatgg aaccggtgta gtttttcaag caagacaaga tctcgctgct ggaatcgctg 360
 gatgaaaaag attgccttta caattccatg tgcgcgctgc tgtggtggtg tggttcgacc 420
 acaaaacatg tggctggggtt catag 445

<210> 34787
 <211> 106
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-C9

<400> 34787

aaaaaaaaa aaaaaaaaaa taaaaaaaaa atttaaaaaa aaaaaaaaaa aaaaaaaaaa 60
 agaggaaaaa taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 106

<210> 34788
 <211> 108
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-D12

<400> 34788

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa ttataaaaaa aaaaaaaaaa aaaaaaaaaa 60
 ggagaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaa 108

<210> 34789
 <211> 263
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-F11

<400> 34789

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 acctgtgcag tgcagctgtg ctaccatgaa gtatttcgtg ctcttgtgcg ctagcttcgt 120
 ttactttcga gttttcgagt aaggaataag atgcctcttg ttgcaatagt gataaagcta 180
 atcctgcttg taattacatt tcgtggaatg gccattccgg caacatgtcc agtaaaaaaa 240
 acttttttagt ccataaaaaa cac 263

<210> 34790
 <211> 211
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-021-Q1-K1-H5

 <400> 34790

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 catggtgttt atcaatcgtg tacacagtct gtaaacgggtg tatcttggat gcatgttgct 120
 gcgagcagag tacgtaggta tgaaccgatg tgtgcgcttg tgtctgacta ctctatctat 180
 gtagcaatga gttgtcagtg tgtgctttga t 211

<210> 34791
 <211> 293
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-022-Q1-K1-C2

 <400> 34791

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 actctaaaaa gatccagaat aacatactca tacatacaac aacataaaact cttctataat 120
 aaaacctaca ttccaattca ctgaccatca ttttacaaca tcttaactac taaaaccctg 180
 accataccaa tcttaatatc cttacatcac ataccctttt tttcagcatc cttaatagca 240
 aacaatccct aaccgctatc ccttcccaac agttcttcat cctgaatttc taa 293

<210> 34792
 <211> 238
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-022-Q1-K1-D7

 <400> 34792

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 gagacgggta tttggcttcg cagttatcta gctatgtgat gtactgttgt cttgtccctg 120
 ggtattatat ggtacactgc agccagtaat agtaaaaaaa aaaaaaaaaa gacaaaacaa 180

gaacaaaaag aaaaaaaaaa aagcaaaaaa aaaaacaaaa aagagcacat agtaaaaa 238

<210> 34793
<211> 223
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-E4

<400> 34793

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agaaaatctg catgacacga ataattccacg tacacggctg tactaaaaag atgatgaatc 120
tgtggtggct aaaaaaaggg aaatagaaaa gtctggtaat aaaagttgtt tctgaacaaa 180
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaata aat 223

<210> 34794
<211> 212
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-G5

<400> 34794

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ggccacatta ggaaagctgg aatagccttt ttgaactcag atttttttgc taacagtggg 120
gttatggtga aacaaagttt tgtttgtatg taccaacagc taaaatgtaa acacgacatt 180
atcatagttg agtacaggaa taattatctc tt 212

<210> 34795
<211> 96
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-A6

<400> 34795

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaag 60
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 96

<210> 34796

<211> 260
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-023-Q1-K1-E12

 <400> 34796

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 gcatggttca ctccacctga ggagtactat cacaagaccc atactcatac taatagaccg 120
 cggcctaaac actcggtgaa tcatgatctt taattaaaca ctacgctcaa aaccttaaaa 180
 tcccttcaca tatgaacaac accacctgtt tttaaacctt tcgtacttac tatcatacta 240
 aatctgcata tctttcccca 260

<210> 34797
 <211> 161
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-024-Q1-K1-E12

 <400> 34797

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 aacacttctt aataattgtc tatacgattg aagctgattt gattggtaat tgtaaacaac 120
 ttgtctttgg atctttgaag tcaaacaaag tcagttgggt g 161

<210> 34798
 <211> 409
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-024-Q1-K1-F7

 <400> 34798

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 gacccggccg acgtacactc caagcccaa acctccgacg cccaagccga cccacccgac 120
 gtacaccctt tcccccaagc ctccgacacc taagccgacc ccgcctacgt aactccaag 180
 ccctaagcca ccggctacca agcctccac gcccaagccg accccgcaa cgtacacccc 240
 ttgcgcaaag cctccgacac ccaagccgac cccgcccagc tacaccctt ctccaagcc 300

ttcgacgccc aagccgaccc cgccgacgta cactccaagc cccaagcctt ccacacaccc 360
gacgccaag ccgacccac cgacgtacac ccctttccca aagccttcg 409

<210> 34799
<211> 236
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-A7

<400> 34799

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gaaaaaaaaa aaaaaaaaaa aaataaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaataa aaaaaaaaaa ggggcgcccc ttttaacggc cccatgttta attccccctt 180
cttgcccctt tttatttttt ttataggggc ccctaatttc aattatgtgc ccagct 236

<210> 34800
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-C9

<400> 34800

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ctcgccgggg ctgccggcgc cggcgcgcag cagggcgtgt ggagcatcat caccggcccc 120
atgttcaga gcatgctgag ccaccgcggc gacagcgggt gccagggcgc cttctacacc 180
tacgacgcct tcatcgaggc cgccagcaag ttccccggct tcggcaccac cggcgacgag 240
cagacgcgca ggcgggagct cgccgccttc ttcggccaga cgtcccacga aaccaccggt 300
ggatggggca ctgctccgga tggaccgttt gcctggggat actgccgggt gaaggaacag 360
aaacagacgg acccacccta ctatggacga ggaccatac agctaactca taagtacaac 420
ta 422

<210> 34801
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-D9

<400> 34801

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 gcatctcgat ccacatcggc caggccggta tccaggtcgg aaacgcgtgc tgggagctgt 180
 actgcctcga gcatggcatt caggctgatg gtcagatgcc cgggtgacaag accattgggg 240
 gaggtgatga tgctttcaac accttcttca gtgagactgg cgctgggaag cacgtccccc 300
 gtgctgtttt tgttgacctt gagcccactg tcatcgatga ggtgaggact ggcacctatc 360
 gccagctctt ccacctgag cagctcatca gtggcaagga ggatgcagcc aacaacttcg 420
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<210> 34802

<211> 65

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-F4

<400> 34802

cccacgcgtc cgcccacgcg tccgcccacg cgtccgaaaa aaaaaaaaaa aaaaaaatgg 60
 aagg 65

<210> 34803

<211> 81

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-G5

<400> 34803

cccacgcgtc cgcccacgcg tccgaccacg cgtccgcccc cgcgccgaa aaaaaggagg 60
 aaaaaaaaaa aaaaaagaaa a 81

<210> 34804

<211> 81

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-G9

<400> 34804

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gcgggagaac aaaaaaagaa t 81

<210> 34805

<211> 66

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-A2

<400> 34805

cccacgcgtc cgcggacgcg tgggaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaag 60

agaaaa 66

<210> 34806

<211> 273

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-026-Q1-K1-B7

<400> 34806

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gtgtgctgcc atccgtcccc gttagacgat cgaggagaga ataacgcaga gctctctgct 120

ccggcctgt cttctgccgt ccgggccgtt taatttacta gtgtgttcgt cctatatgtt 180

tagcagcagc aggtgtattg tgcgggtatg taatgggtatt gcaactatat tgggtgtaaa 240

accataataa atgtgggcaa atatgcaaaa naa 273

<210> 34807

<211> 386

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-026-Q1-K1-D1

<400> 34807

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 taagccaggc gtcgttggct taccaaaagg gcgaggagat gtgtgcacgg cagagggaag 180
 ccgaagcgca tagccatgct ggaccagatg agcatctgta tgccttggac ctggagaaca 240
 cggaagagga atcgacgctn tattttgatc tcacaccggt ttatcgggcy caccacatgc 300
 acacatgtct tgggatggag gacaagttta gagactatta ctacaagaac aggctgatgc 360
 aactcaactt gtacatgcag atcttc 386

<210> 34808
 <211> 440
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3068-026-Q1-K1-D7
 <400> 34808

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 gcctagcttg aagtcaattt tcattggatc cgtgatctcg tttccaaaaa aaaaagtttg 120
 aaactggatc tgagttgaag atcttgggtcc gtagttaccc cagtaccca cttttactta 180
 gatctgagca tgtaaggtag tctttttgtt tccttctgca attttatgct atgtcattta 240
 gttgttttta gtttgattga gaagcacgtg aagagtaatt tcggtaaata gagaggatcy 300
 gtgcttcaaa atggagtagt agtttattat gaccttttga gattccaaat actgtcgact 360
 ntatgataaa atacttgaaa gttgaaactg tcctttctgg taagtccgta actctttcga 420
 agttctgaag ttgcatttgc 440

<210> 34809
 <211> 339
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-026-Q1-K1-E6
 <400> 34809

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 gaggtgcagg tgggtggcttc ggagggtggcy gaggttcggg tgggtggcatc ggtgggtggac 120

tctagaggtg gcgggagctc ggcgcgcgca cgttgagtgc gtgcatgcca tgaaattaaa 180
aagcgatata tggagtgtgt ggtacggtat ggacattgct agagttacat tacatcatca 240
ctagtatata taaggttgac tcttatttgt aagcctaataa aaagtgaata attggatgcg 300
ttatgtaagc ctactctact atatatatgc ttgttttgg 339

<210> 34810
<211> 83
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-F2

<400> 34810

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaaataaa aaaaaaaaaac aaaaaaaaaa 60
aaaaaggga caaccgatct aaa 83

<210> 34811
<211> 95
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-C11

<400> 34811

aaaaaaaaa aaaaaaaaaa aaaaaaaatt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
agaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 95

<210> 34812
<211> 52
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-B12

<400> 34812

aaaaaaacaa aaaaaacaaa aaaggggaaa tggttgaaaa aaataaaagg aa 52

<210> 34813
<211> 198
<212> DNA
<213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-028-Q1-K1-D2

<400> 34813

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 aaatttaaaa aaaaagggcg cccactctaa aaaatccaaa caaaacttac ccctccttac 120
 cacgtcataa ctcttctata atgtcccctc ccttcacttc acttcccgcc gttttactac 180
 atcgtaactc ctaaaacc 198

<210> 34814
 <211> 281
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-E4

<400> 34814

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 ggggactggt taatttaaag aaggagagc gcaacaccct ccgctttaa ggatccgacg 120
 ctcttacac aggcaccca cgcgcatacc tcttctatag tagggccaaa cattcattct 180
 actgccggtt aatttacaac tgacgcgacg tgtaaaacc tgtcgtgacc gaactaaact 240
 gcggtgcaac acatttcact ttcttcaggt ggcgttttat t 281

<210> 34815
 <211> 240
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-F1

<400> 34815

cccacgcgtc cgcacgcgc tacgcttacg cgtccgccca cgcgtccggc gacgcggtcg 60
 cctacgcgtg cgagaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aggggggtcg atttaaaaga aaaaaataa aaggcgcgtg catgcgaaga aaaaggtttt 180
 ctataagggt acctaaattt aattgagtg ccgtgggtta aaaatacaaa aattgggaaa 240

<210> 34816

<211> 275
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-028-Q1-K1-F12

 <400> 34816

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 aaaattaaaa agggggggccg atttaaaaaa atccaaactt acatactcct tcattcaaaa 120
 tcataactat ttttttattt cacctaaatt caatttactt tcccccgttt tacaacctcg 180
 tggcttgtaa aaaccttgcc ttttccaact taatcccctt tcaccacatt cccttttttc 240
 cagctagcct aataactaat agggccccgc ctttt 275

<210> 34817
 <211> 398
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-028-Q1-K1-G10

 <400> 34817

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 tccgttgctg ccgcccgat ctgaggatct ccattttcta ctagtacgta cgtgcaccgt 120
 tttcgtcgtt gctggatccg atgaagactc atcccctcca agatctacgt ttgcaatgga 180
 tggatctgcy catccgctga cttactagtc cgccttgcca acaatgagag atacatggag 240
 gagcgggagc catgggagggt tgtaaaatct gaaaaaaaag tggtgagtgt gaatttggat 300
 ctggtggtga gtgtgaattt ggatgagtgt ggtgtttttg tcccagggtg aaagacacag 360
 actgttgttt gttgctcttg ttctacaacc atgctttt 398

<210> 34818
 <211> 368
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-028-Q1-K1-G11

 <400> 34818

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ttgtcctttc agtcacggga tccccagaaa agatttcttg gttgtgctgc tcttgcagtt 120
 ttgtagtagg gtgtccattg tagcaatggc aggggtgacc gttgcttggg tttgttgacc 180
 tgcgtagcac ttaagattgt gtatctaaag ttgtagggat tcatgttcat gcgattatgc 240
 ttggatatac ggagtgcacat cgtggagcat aaagatgact tgtacattcg tcttgttcat 300
 cgagagtcac gtgactttta tcaaaagaaa caaacatatt gtgatataca tcacgatata 360
 tgtttttc 368

<210> 34819
 <211> 273
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-G5

<400> 34819
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 aatccaacca acccatctgt tcatcgtttc gggccctcaa ccaactgcacc accaccatta 120
 ttattactcc actattcttc gtccacctct tctctctcca tccccatagc cataggacaa 180
 atattttttt tttaaaaaaa aaggagatta aaatcaaagg aacagcgtaa taataataac 240
 accgaagacc ttgtctgcac gcctttcttc cct 273

<210> 34820
 <211> 231
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-G6

<400> 34820
 accacgcgtg cgcaaaaaac aaaacttcta ctttcaacct tagcaaataa aaattgggct 60
 gtgtttatta agaaaccaga gccgaccac acatccattc aaccacatac ctacactata 120
 cccacaccaa acaacaaatc actgcctgtc tttttacaac ttacctactg acaaaaccc 180
 ttcttaaccc aacttaatcc ctttgccaca catcctcctt ccaccacctt a 231

<210> 34821
 <211> 122
 <212> DNA

<213> Zea mays
 <223> Clone ID: LIB3068-029-Q1-K1-B12
 <400> 34821
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 gaggaaaaaa aaaaaaaaaa aaaaagataa aaaaaaaaaa aaaaaataa aaaaggataa 120
 gc 122

<210> 34822
 <211> 72
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-029-Q1-K1-C4
 <400> 34822
 cccacgcgcc taataaaaat aaaaaaaaaa tatttaataa aaaaaataa aaaaaaaggg 60
 aaaaagaaaa at 72

<210> 34823
 <211> 118
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3068-029-Q1-K1-E5
 <400> 34823
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 aggcgatccg ggtaattctc gaataatcaa tgaactgggt aagattgtaa canataaa 118

<210> 34824
 <211> 202
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-029-Q1-K1-F3
 <400> 34824
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 cacctcggac atctggcatc tgggtgcaag gtccatgtcc atctatgaac tctcttcac 120

aaccgacatc gttctgagaa gtctcgccgt gcgaggtcgg ccatagctcg ctccgcttac 180
aacatagata gcccaactcat ca 202

<210> 34825
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-E5

<400> 34825

cccacgcgtc cgtacaggct cgccgggcaa gcgctgaacc tgaacctggt gggcgacccg 60
gaccgggtgg cgagagaccc cgtggtagcc ttcaagacgg ccatctggtt ctggatgacg 120
ccgcagtcgc ccaagccctc gtgccacgcc gtgatgaccg gcgactggag gcccttcgac 180
accgaccgcg ccgcgggggag gctccccgga tacggcctga ccacgaacat catcaacggt 240
ggtctagagt gcggcgagga ccgctccacc gacggcgcca aagccgcaa agaccgggtc 300
ggctactaca agaagtactg cggtatgctc ggagtggggg acggggacaa catggcatgc 360
gggagccaaa agccttacgg aggatgatga cactagtagc tgatctat 408

<210> 34826
<211> 301
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-G12

<400> 34826

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attcctctat ttgtctcatg gtcttaagga gatcaagtgc taggcgtgcg gcgaaattag 120
ttacccatgt tgggtactat ctatgtacta ttattatc caaaactata gttgtcctgg 180
ctgaattgaa ctcaaaagggt tttgtttgag aaaaaattgt cccaagattg gattgcttgt 240
taaagctcaa tattgttatt gaagtgttaa aaaaaagtag tctatcccta aaataaaaaat 300
c 301

<210> 34827
<211> 259

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-030-Q1-K1-H2

 <400> 34827

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 gatgtgccgc cccagccaaa ctccccacct gacaatgtct tccgcccgga tcggtccggc 120
 gaggccgggc cttggagcca aaaggagggg cggtgccccg ctttcgacct acggaataag 180
 taaaattacg ttaaagtag tcggatttta cttgctcccc gaggcttcca cttatactac 240
 accttttaag gcattttac 259

<210> 34828
 <211> 411
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-031-Q1-K1-G8

 <400> 34828

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 acctgtactc gacggtgtac ggcacggaca cggctgcgct gagcacgggg ctttttaaac 120
 aacggtgctt gttgcggccca gggttaccga atctcctgca cttaccaggc ggaccctcgg 180
 ttttgaatcc gcggaacgtc ggtgaccata accgccacca acctgtgccc tccaaactac 240
 gcgctgcca acgacgacgg cggttggtgc aaccgcccgc ggaagcactt cgacatggcc 300
 gagccggcct ggctaaagat cggcatctac cgcggcggca tcgtgcccgt caactaccaa 360
 agggtgccgt gtgtgaagaa aggcggcgtg aggttcagca tcaacgggcg c 411

<210> 34829
 <211> 69
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-031-Q1-K1-H3

 <400> 34829

 aaaaaacata cgnactctt tcggataaca tttttacaaa tcagtaaata tataaacaag 60

ggggggtat

69

<210> 34830
<211> 127
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-H5

<400> 34830

tcttctccac tcgtactcca caggtccgac cagcgtttcg tccactcggt cgatataaaa 60
ataaggggaa aataaaacaa atctaactaa taacaaataa aaataataaa ataaataaaa 120
actaaaa 127

<210> 34831
<211> 301
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-032-Q1-K1-A6

<400> 34831

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angggctcga gctaaattcc aagggtgcact gaatcacctt aggcgtttcc attacctgtg 120
ttggttactg gaaaaccagt ccggtagatg cgggtttgcg cagaacgatg gagggttttt 180
ccctgcacat ttgatgtctc atgttcgcca ccaagtttca aggtttgtac cacaagatcc 240
atttattaaa aagaccacac agtgagatat ttaaaccatt attgtgacaa attatatatt 300
t 301

<210> 34832
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-D5

<400> 34832

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ccgcgatgga tggtgtgtac gccctcaagc gccagggccg cactctgtac ggggttcggtg 120

gttgagcgca tctcttccct cgtctgcagc ggctgccggt ggcgtttcct cagttccctc 180
 tgccttgctt ggcttgatgt agagagttat cagattaaaa tatctctgat gtgcttcggt 240
 attgggtgga atcatgtgtc ccagcagtgc tgggaaatcg agatcaagat gtatctttct 300
 ttgcagtaat gaaatgttaa aatcgagatc aaaaaaaaaa aatttttttt aa 352

<210> 34833
 <211> 302
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-032-Q1-K1-E9

<400> 34833

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 tgaagaggcg ggtgcaggta tcgagtacca cgcgtccgtc naccagaatg aggtaccttc 120
 cgattcaciaa gggcgcacatc gcgccgcacc aaacaccgat cgatgtgctg tgcttcatga 180
 ctgcgtgcac cctacctacc gatgacccta ttccactatt cgctggcctg tatgctcatg 240
 acatgaccct ttccataggcc ccatgctgca tgtacagact tactaacttt ttcatctgac 300
 gc 302

<210> 34834
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-H5

<400> 34834

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 cacctacgat aagctgctct ccgaggtgcc caagtacaag cagatcacc catccatcct 120
 atctgagcgc ctcagggtta atggatcctt ggcacggagg gccatcaagg atctgatggc 180
 aaaggggctc ataaggatgg tctttgttca ttctagccag cagatataca ccagggcaac 240
 caacacatga ggggtgtttt gccgtctggg gaccgtatct aatctaaacg acttgatggt 300
 gctattatat caagggttaa ttaatcgggg ctgaacaat cttactggtg ggttgaatgg 360

tgaaaatttt tgagattatt gtactatatt aagatcatgt tttataaca ttttaagacca 420
 tgggtgccatc cc 432

<210> 34835
 <211> 80
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-C1

<400> 34835

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaaaatc aaaaaataaa aaaaaaaaaa 60
 agcaaacggg caaaatcatg 80

<210> 34836
 <211> 226
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-C2

<400> 34836

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 gcctaggcta atttttgata ttgataagag tgctcattat aaagcaatac ttgcgattta 120
 ttttaagaatt gaccaaagca tcattaggtg tcaaaataaa gaaaacccat cctagtggat 180
 ccgtatggta aggaaaaatg cctaattctat tcacttaaca aacatg 226

<210> 34837
 <211> 295
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-D9

<400> 34837

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 gtctgagggg tgggctcggg ggtcccggcc ccgaaccgt cggctgctgg cggaatgctc 120
 gagctgctcg cgcggcgaga gcgggccgcc gcgtgccggc cgggggacgg accgggaacg 180
 gccccctctg gggccttccc cgggcgtcga acaaccgact cagaactggt acgggtatat 240

caagcaaaaa aaaaaataca aaaaaattat aaaaaaaaaa aaaataaaca ataaa 295

<210> 34838

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-E3

<400> 34838

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cgctgtgagt actcgtcagt ttgaggttcg tgtggtgatg cttgctaggt actagatggg 120

tggtattgct tatgaatgcg atgttgctcg gacagaactg catttcattt tgtattatgg 180

ttgttcaaga tggtatatta ccatgaggtg aggtagcttg actgaaaaaa aaaaaaagaa 240

aaaaaaaaa aaaaaaaaaa aaacaacaaa aaaaaaaaaa aaataataaa taaaaa 296

<210> 34839

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-F11

<400> 34839

tccggacgat cacactcgca tccgatctat tgaagatgca atgcactcct tcacgtatag 60

ggagcctctc tacctaacga atagcatcaa gctaactaca aacctacctt cagcatgtgt 120

ctactagcta atcatatcgt gtgtacgagt atgaaagatg atgtactgtc accaactcac 180

ttgtgtatga taaaggatac atgataagac tatcactact aaaaaaaca tataaagaaa 240

gagcataacc aacttaaaat gtaaaaagct aaagtagaag aaaaacctaa gatcaatatg 300

aataaaaagg acgtcctcat c 321

<210> 34840

<211> 67

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-G1

<400> 34840

ctctgcttca gcatatatgt agttgtgtct actgggttttt gcagttgtta aaaaaaaaaag 60
 aaaaagg 67

<210> 34841
 <211> 250
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-G5

<400> 34841

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 tattgatgtg aattcctctg ctgaagaaac actgatcaac gttatgaacc catacacaat 180
 aaccaaccat cgcaagctcc acacaaaggc tgatcacaaa catatccttt aagccatcaa 240
 actttatagc 250

<210> 34842
 <211> 62
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-A5

<400> 34842

cggactcgtg ggaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagggagg 60
 ag 62

<210> 34843
 <211> 288
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-B2

<400> 34843

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 actcgcttgg ggtcagctac ggcgaacact ttgtactgcg ccaaccagac gcccttcaa 120
 cgggctaaat taaataagct agctacctaa ccatgcatgc atgctttatt attagagaac 180

acatttagac ctgatcgata tgatgatggg tatgtattac ttactacac gcagatccag 240
 caatcaagaa tcaagcatat taacgcttac tcaaaacaaa ccaattat 288

<210> 34844
 <211> 68
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-E11

<400> 34844

aaaaaaaaa aaaaaaaaca aaaaaagttt attaaaaaaaa aaaaaaaaaa aaacaaaaaag 60
 gcggaaaa 68

<210> 34845
 <211> 268
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-E5

<400> 34845

gtcgcgcggt ccgacaaaat ctaaaactaa taaatagatc aaaagcaaaa aatataagg 60
 ggccaatcta aaaaacgggt gcatacaaac aaaatggcca gcctatatg tcaattcaag 120
 cttacatact cgtacttgca acttcttaga tctcatttg tgtaccctaa attaaattca 180
 cttgccgct ttttacaact atccgactgg gaaaactctg gcgttaccaa acttaatcgc 240
 ttcgaataac atacccttt tacgagct 268

<210> 34846
 <211> 68
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-F7

<400> 34846

aacacacatc cgaaaaaat aaccttattt caaagcataa tcaatacaaa atccaggggg 60
 attcatac 68

<210> 34847

<211> 171
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-034-Q1-K1-G2

 <400> 34847

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 taacttgctg cctgctcagt aattatgact ctattcagtt tgtaattgcc ggtgggagta 120
 caattatgca gctgtattgt ctgctaaaaa aaaaaaaaaa aaaagagagc c 171

<210> 34848
 <211> 150
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-034-Q1-K1-G3

 <400> 34848

 gtaattgttg gttaaagggtt ttttttgggg ggtatcaata tcttggttgg tgtttattaa 60
 ttatgactct attcattttg taatagccgg tgggagtaca attatgcagc tgtattgtct 120
 gctaaaaaaaa aaaaaacagc caaaaaaacac 150

<210> 34849
 <211> 457
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-036-Q1-K1-A9

 <400> 34849

 gcgcccacgc gtccgaagca agccatgtgg aggagggctt tagcgatggt cctgttcattg 60
 tctggcgccg cgctgctcgc cggggctgcc ggcgccggcg cgcagcaggc cgtgtggagc 120
 atcatcaccg ggcctatggt ccagagcatg ctgagccacc gcggcgacag cgggtgccag 180
 ggcgcttct acacctacga cgccttcacg gaggccgcca gcaagttccc cggcttcggc 240
 accaccggcg acgagcagac gcgcaggcgg gagctcgccg ccttcttcgg ccagacgtcc 300
 cacgaaacca ccggtggatg ggcgactgct ccggatggac cgtttgcctg gggatactgc 360
 cgggtgaagg aacagaaaca gacggacca ccctactatg gacgaggacc catacagcta 420

actcataagt acaactacag gctcgccggg caagcgc

457

<210> 34850

<211> 62

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-E1

<400> 34850

cttagcgtcc gcttccttcc aacgtattac ctcttctaata gggtcaccta aattcaatca 60

ct 62

<210> 34851

<211> 115

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-H6

<400> 34851

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaataaaaaa taaaaaaaaat ccaaacaaaa 60

aaacggtaca ttcaaaaaaa taagctagaa tataatgtaa ccataaaatt caatt 115

<210> 34852

<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-B2

<400> 34852

aaaaaaaatc aagtaagtac ggtctcatgc gctgcatgca gtgctttcgt agcaactcca 60

agggcattgg tttcattaag taccgttgaa gaggccactg tgctgttggtg gagaacttcc 120

ttcatgagat aaatgggtcc ttcattagaa ggcctaattt atgcgcttta gctatttggtt 180

cataacttga gactcatggg ttaaactcga cttgttaaag ttttgatggc tactttgtgc 240

tcgaaggacc atctattatg agaagattgc aattttctca ctttataaaa 290

<210> 34853

<211> 59

<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3068-037-Q1-K1-E6
 <400> 34853
 aaaaaaaaaa aaaaaaaaaa aaaaataaaa ataaaaaaaa aaaaaaaaaa aaaaaaaaaa 59

<210> 34854
 <211> 53
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-038-Q1-K1-E1
 <400> 34854
 aaaaaaaaaa aaaaaaaaaa aaaaaagaat aaaaaaaaaa aaaaaaaaaa aaa 53

<210> 34855
 <211> 267
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-038-Q1-K1-E2
 <400> 34855
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 gggccgggca tatgaagtgg cttcgtgcac ttggcgtgta cggagctcaa tatgtgggac 120
 cttggagcca cttggacttg gtggttgtgg cagttaaatt ggggtgttca caagtgagta 180
 atcttttttt tttgtgatga cgcctagcat gtaaaaatgt gagctatgac atactgatgg 240
 gttacacatt ttgcaaaaaa aagaatt 267

<210> 34856
 <211> 132
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-038-Q1-K1-G12
 <400> 34856
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 aaacaaaact tactactcga cgctactgac agtgtcaggt acaacagagg tatacaaaaa 120

tacataataa ct

132

<210> 34857
<211> 166
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-G6

<400> 34857

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ggacgcgtat atgcgaggtg atagatctta tatagtgtaa actaaattga attcactggc 120
cgctaggtta tcaagagcgt gaatgataaa accctttggt gaacgc 166

<210> 34858
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-040-Q1-K1-F5

<400> 34858

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gctgccactg gggctgctgc aaccgcgcct accatggctc ctgtcgggtgc tgctctcacc 120
ctgatcatat accatagccc atgtaccgtt ctgagctcgt cgaggaccac atctaaatac 180
taatgacatg cgctgctact atatataccg gtacctatgc actacgtgaa ccacatcaca 240
ctcgtagtac actcgtccta ctagtcaata caagttaagt tccatcacca cgtcatgaaa 300
taaaagtaac gaggttgcaa gcatctctgt gcgtgactga aaacgtcgac tgtatctcat 360
gcatggaata aatttaatag attatgtcca acacgtagc 399

<210> 34859
<211> 80
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-C5

<400> 34859

cccacgcgtc cgctttttaa atgaaataaa aattaaaaaa aaaaaataaa taaaaaaagg 60

agaagggttaa aaataaaaagt

80

<210> 34860
<211> 399
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-041-Q1-K1-D1

<400> 34860

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ggcgccgcgc ggctcgccgg ggctgccggc gccggcgcgc agcagggcgt gtggagcatc 120
atcacccggc ccatgttcca gagcatgctg agccaccgcg gcgacagcgg gtgccagggc 180
gcctttctaca cctacgacgc cttcatcgag gccgccagca agttccccgg cttcggcacc 240
accggcgacg agcagacgcg caggcgggag ctcgccgnet tcttcggcca gacgtccac 300
gaaaccaccg gtggatgggc gactgctccg gatggaccgt ttgcctgggg atactgccgg 360
gtgaaggaac agaaacagac ggacccaccc tactatgga 399

<210> 34861
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-E1

<400> 34861

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cactctgcag aggttgtagc ctttaccac aagtcatgtt acccatctgc caaggggtaa 120
cgactcccat acacctctac ctaggaagcg cggcagggca acactacgag gcctttacaa 180
agttccacta gtttcgaaa acccgctaca gtttatggga agagcacttg caagaatctc 240
ccgtctgacc gccatcgag ctaaataaac ccgagaacct ccttgcacgc aacttccta 300
ctgcccttgc ccctttcggg taaagtagtc ttccactagc tttcctaatt agtc 354

<210> 34862
<211> 73
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-E10

<400> 34862

cccacgcgtc cgaaaaaaaa aaaaaaaatt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

gggaggaaat aaa 73

<210> 34863

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-E11

<400> 34863

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ctcgcggggg ctgccggcgc cggcgcgcag catggcgtgt ggagcatcat caccggccc 120

atgttcaga gcatgctgag ccaccgcggc gacagcgggt gccagggcgc cttctacacc 180

tacgacgcct tcatcgaggc cgccagcaag ttccccggct tcggcaccac cggcgacgag 240

cagacgcgca ggctggagct cgccgccttc ttcgccaga cgtcccacga aaccaccggt 300

ggatgggcga ctgctccgga tggaccgttt gctggggat actgccgggt gaaggaacag 360

aaacagacgg acccacccta ctatggacga ggaccatac agctaactca taagtacaac 420

tacaggc 427

<210> 34864

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-G10

<400> 34864

ggctcatgga aaaaaggagc aactcgagat ggtaatgtac aaaggggtgga ttacaagagt 60

tccattccat gcgagcgcga ttgagttcgt ccatccaaca aactacgcag ttattcatgc 120

tacacacagc tcgcgtccca tgcgttcaga atttcagatc cagagctggc aaccctcga 180

tcaaaagaga gaagagggga gggaaaaaag gttcagggtc gacagagctg gcaaagttaa 240

ggagccgtct gccggggtcg tcgtcgtctt ctcccctcaa cagaaggacg ggacgacgcc 300

gtccgacgcg gctggcgccg accccgtggg cgagaagcac gccccttcct cgtgc 355

<210> 34865
<211> 88
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-A10

<400> 34865

aaaaaaaaa aaaaaaaaaa aaaaaaaaat aaaaaaaaaa aaaaaaaaaa aaaaaaagga 60

agaaaaaata aaaaaaaaag gaaaaaaa 88

<210> 34866
<211> 81
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-B1

<400> 34866

tccacgcgtc cgctttttaa atgaaaaaaa aaaataaaat taaaaaaaaa aaaaaaaaaa 60

aaaaaaaggaa agggatatta t 81

<210> 34867
<211> 203
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-B9

<400> 34867

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gcattttcag gtggggaggg tggttggcgc ggcacatctg ttaaaaagata acgcatgtgt 120

cctaagatga gctcaactca aaatagacag aaatatatac cgtatttgtc actgaaacaa 180

agataataaa aacaaataga tac 203

<210> 34868
<211> 65
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-G12

<400> 34868

ctgaaaatgc ttttgtgggg aaaaaaatta aaaaaaaaaa aaaacaaaaa aaaaaagggg 60

ggaaa 65

<210> 34869

<211> 315

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-044-Q1-K1-B7

<400> 34869

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ncgagnngga gcacgccggg cgggacccga aagaaggaga accangcccg agcggggcgga 120

agccagagga aacacaggag gaggcacgaa gcgacaccga cgagcaaanc gnacgccgga 180

cgngggcaca ggggcgaaag accaaacgaa ccaacgagna ccagggcccc cccgaaggga 240

cccgagggag agcgggagcc cacacgagan caagcggaga aagccaacag acagaggcag 300

cgggggcgca acgcc 315

<210> 34870

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-044-Q1-K1-C10

<400> 34870

aagccagtac cgagtcctac gagcagtcgc acgcaagtgt caagagacga aacggtcgac 60

atggctcgca cgcaatctgc cgtagcggtc gccgtggtgg ccgcggtgct gctgctggca 120

gcggcgcgga cgacctcgga ggccgccatc acctgcgggc aggtgagctc cgccatcgcg 180

ccctgcctct cctacgcccg cggcacgggg tccggcccct ccgcgtcctg ctgtagcggc 240

gtcaggaacc tcaagagcgc cgncagcacc gccgncgaca ggcgcgccgn ctgcaactgc 300

ctcaagaacg ccgncagggg cgtcagcggc ctcaacgccg gcaacgccgn cagcatcccc 360

tccaagtgcg gcgtcagcat cccctacacc atcagcacct tcaccgactg ctccagggtg 420
aactaaacct agaccacgcg cg 442

<210> 34871
<211> 344
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-045-Q1-K1-B4

<400> 34871

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gttgaaggctc gttcgagctt ttcttgggag tatggcatgg gttacatact tcagcgccgt 120
agcgcttggc atgagcctcg tggagaagca atggctagtc cacggggctc atacttcagc 180
gctgcagcgc ttggtactcg gacctcggct cgaggcattt tctctacccc ttcttaccct 240
gaaaaagcag ggtcaccttg tgtccttaaa cctataacca tctttcggct aacctagcct 300
nctnctccc tccgtaccaa caaggggtag tacaagaata ttga 344

<210> 34872
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-D3

<400> 34872

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tctataatct tttaaaggga ggctcacttg ctctatatc ttcaaagctg ctagccatgt 120
gcatcatctt tattgggtct tgacaccct aagctgctca tttttagtg tgaacatggg 180
gccacttgga aagcatgata aactaattag cattgatgac ccaaatttt ttctttggaa 240
cgtagacatg tcaaagaaat caactaaggat gatctcacag ggatcagatg acatgctttc 300
aaatatgagt ggtggggctt gggatccaca caatcataat ttaaattgcg ttaatatggc 360
gatgcaatca ct 372

<210> 34873

<211> 273
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-045-Q1-K1-E1

 <400> 34873

 agaacacgga gcttgaagcg caaatacagg cgatgcgtgc agctaaagag gcgctgaagc 60
 tacagctaac agaagctgag gcaagcgtca aagctgctga gaagaaaggc tcagacctcg 120
 agcaacagct cagtgcagatt gagaagaaat tagttgcatc aagtgaagaa atagagttgc 180
 tgaaagagcg tattcaacaa gaagctgctg tatcagcaga aagaggaatg caccttgtag 240
 aaacaatgac cagtgcagac cgatacaaaa aga 273

<210> 34874
 <211> 76
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-045-Q1-K1-E4

 <400> 34874

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 gcccgatcc agagag 76

<210> 34875
 <211> 247
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-045-Q1-K1-F9

 <400> 34875

 gggggagcga cgcgttcgaa aaaaaataaa aaataatata aaaaaatttt atttttataa 60
 aaaaaaaaa atataatggg gcggggggtt tataagtacc aagctttctt accctttctt 120
 gcaacattat acttttttta tagttgaacc taaattcatt tcaactggccg acgttttaca 180
 actttggtac tggtaaaacc cttgcgtaac ccaacttaat tgccttgaat aacattcccc 240
 tttctcc 247

<210> 34876
 <211> 202
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-045-Q1-K1-H6

 <400> 34876

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 gatttgggga ccattgtgcc ctggtgaact catgtattac cttgtgaagt ccgttgtgtc 120
 tggtttctac ctgaccgttt cgttatctga tgctgtttct ttaataaaca agagaaaaac 180
 accacctaaa accatacaaa ca 202

<210> 34877
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-046-Q1-K1-F6

 <400> 34877

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 agtgggaacc acccttcgcg ccggccaccg tggaggcgta cgtgagcctg caggtggtgt 180
 ttggtttgat gaatcatatt cctcaaattt ggtagatgag cccattcata ttagaaattt 240
 ggtggatgag cctattcata ttagtactaa ctaactatga gaaatgaggt gttgatggat 300
 caacttatta cattccacaa accaaatgaa aaaaagttag gagtgagaac tagctcgttc 360
 atcaaagaac accctataaa agaattgtca ttgacatcag cacctacgaa tcagccacgc 420
 tcgaagtag 429

<210> 34878
 <211> 212
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-046-Q1-K1-G12

 <400> 34878

 cccacgcatt cgtcgaacca tctagtaact gtttccttcc gaagtctccc tgaagatatc 60

Sequence

atggggcacg tacaaattat aatcgggtaa agtcaatgat tagaggcatc tggagcgcaa 120
cgccctcgac ctattctcaa actttaacta cgtatgacgg ctcggtgct tcgagagacc 180
gtgccacgga atatggagct tcaagtagtc ca 212

<210> 34879
<211> 252
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-G6

<400> 34879

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ccgacacctg gtgctgatcc tgtgcctcca ggccgttctg gtcattggcg tattcgccga 120
tttggtctaaa gaaaatgccc tggctgagag caaggccatc gacatcaacc cgtttcagct 180
catgtgctgc accaactgaa gcttgtactt atcggggctc tacacctgag accacgctga 240
atgggacatg gg 252

<210> 34880
<211> 428
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-047-Q1-K1-A1

<400> 34880

aagcacaagc gcactctagc aatggcttct gaggttgctc gccctagcga cgccgagcta 60
ctaaaggcac aagccgacat atggcggctc agcctctcct acctcacgcc cctgtcactg 120
aggtgcgccg tggagcttgg catccccacg gcgatctacc gccatggcgg ggctgcctca 180
gccgctgagc tggtcacggc gctgtctctc cctccacta agctgccgtt cctccgccgn 240
ctgctgcggc tctcgcgcgc gtcgggcgtg ttcaccgtcg acaagcagag cacggaagag 300
gagcgttacc gcatcagccc cgtgtcctac ctctgggtgg acggcatccc tcacgaagac 360
cacatgaacc acaccgtctt ggtgctcacc tgcacctcga cgcgctacat cgaggcgggg 420
atagggt 428

<210> 34881
 <211> 238
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-047-Q1-K1-A12

 <400> 34881

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 acacatatat ttgtagcccc cctaacgtct ttgtcttggg tcatagttat agagatatat 120
 taacggtgca ttacatggct gtaaaaaaca aaaataaaca aaaaaaaaaa aagaaaaaaaa 180
 aaaataaata aaaaaaagaa aaaaaatagg aataaattac aatatagaaa aagtagcg 238

<210> 34882
 <211> 277
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-047-Q1-K1-D3

 <400> 34882

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 gagacgaaac ggtcgacatg gctcgcacgc aatctgccgt agcggtcgcc gtgggtggccg 120
 cgggtgctgct gctggcagcg ggggcgacga cctcggaggc cgccatcacc tgcgggcagg 180
 tgagctccgn catcgcgccc tgcctctcct acgcccgcgg cacgggggtcc ggccccttcg 240
 cgtcctgctg tagcggcgtc agggaacctc aagagcg 277

<210> 34883
 <211> 51
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-047-Q1-K1-F5

 <400> 34883

 tgctgagatt acagcaacag tggcctacgg cagtttacta ctgttttgtg c 51

<210> 34884
 <211> 267

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-047-Q1-K1-G2
 <400> 34884
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 ttcttttttt ttggtgggcaa aaccattttt cccttttttt ttgccccta aaccttcttt 120
 tcatacctca ggccattcgg atcctttcca atttcccccc gtcttttttc ccttccttta 180
 aacagtgcc cccttcccca ctttcgtttt catcaccctt aaatggttaa aaaaaccag 240
 gccctttttt ttaaccaatc ccccggg 267

<210> 34885
 <211> 268
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-048-Q1-K1-B1
 <400> 34885
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 agtatatatg tgggtgtgtct atatatgtgt gcacgtgggt ttcgctcagc tttttatcaa 120
 cgctttgtga ataaaagctg tctcttcac tgtaaaaaaa aaaaagaaat aaaataaata 180
 taaaataaaa aaataatata ttatagaaaa aaaataaata aaaaaataaa aaatataaaa 240
 ataaatatta tattgtttta aaaacaat 268

<210> 34886
 <211> 268
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-048-Q1-K1-C1
 <400> 34886
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 agtatatatg tgggtgtgtct atatatgtgt gcacgtgggt ttcgctcggc tttttatcaa 120
 cgctttgaga ataaaagctt tctcttcac tgtaaaaaat aaaaaataaa aaaaaaaaaa 180
 aaatgaaata aaaaaaaaaa aagtaataaa taataataaa taaaaaaaaa ttagtaatat 240

gttaaaaaatg ttatttggtta aagtaata

268

<210> 34887

<211> 65

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-C9

<400> 34887

cccacgcgtc cgaaaaaaaa ctacaaaaaaaa ataaaaaaaa aaagacaaaa aaggataaag 60

gaaac 65

<210> 34888

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-D5

<400> 34888

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tgctggcttt caacaagatc tagagttcag tttctgagat tgggcaacgg cagcggctca 120

tctcgtcaag tttgtgctgg gatgccagtt tatcccttct agtctattac agaaatgttg 180

ttcggagctg agtctattat aaacatcttg gtctgagttt attgttgagt ggtgccagtt 240

tttttcaata tacatttata ttaaaaaacaa accaa 275

<210> 34889

<211> 272

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-F2

<400> 34889

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gagacttgga acttcatgtc gcatacttta aatttcatgt ttcggactta aaaaacaaaa 120

attaagacaa attatacttg ctaaactata aaatactcag attacataac ctataaaatt 180

ataattaaag gccggcccct ctttaggttc caattttaca tcccctagct tgcgacgcca 240

tatctctttt gtagggtcac ctaacttaaa tt

272

<210> 34890
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-A1

<400> 34890

atgctgaatg ccaagatgag attatgcgaa atcattacat ttcggtcacc tgcaagatgt 60
catattctga aatgaaatac ggctacagac tctgccccaa cacataacga taggccagat 120
gtacaattaa caggettcog gtccctccaca gaatgaaatt tacagtgtgtg tcgccgcccc 180
ccacccggcc cccgctcgtc agcgaactgc gatccttttc gccttggacg atttgtgtct 240
gatgaagaga gccgccagca tgcttttagt gccaacaggg gccttttggga tcgcacgacc 300
tttggggttg tcgaaggaat ggaatgttga aagttccttt acaccagata tgttcttagc 360
gc 362

<210> 34891
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-F1

<400> 34891

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tgagaaagaa gtcctaggat tttttagaac gactgtcaag tctagccatc cattcattcc 120
cctgtcgaat caatccgggg gctaagattt acgtaattct tttttcttc ttctttgtct 180
ttctccccac cccactatt ttaaataatc ctccagtgtg aatacatgta ctactgcggt 240
ttggccacgc cagccagcat tggttgaact tggaagtgaaggagaaaca ttcgtttttt 300
tacttctgct aaaaaaaaaa aaaattataa aaaattaaat ataataatta ttattaaaa 359

<210> 34892
<211> 94
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-F11

<400> 34892

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaag 60

ggaaaggga aaaaaaaaaa aaaaaaaaaa aaaa 94

<210> 34893

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-E5

<400> 34893

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gtaatcatgt tttttgtcag tgagttcggt tcttttgtca cctacggtgc atctggctat 120

aagaagataa gatttggaag taggtggatt gctctggttg ttgagaagtt tgttgaacct 180

gatgtttcct tggttccaac actgtcatgc tccatcgatt attttggaga gttgatcagt 240

gggcagaaac cgtggaagaa aagctgacat ttgcactcac ccgagcccta tcagcagcgc 300

cggccctggc aggggtcgag cagtgccctt aaccaggccc ccagattaat ggagccctcc 360

tttagaattt ggcacttggg 380

<210> 34894

<211> 134

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-050-Q1-K1-G5

<400> 34894

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ccagggcacg gcgatagagg cacctaaaag caaacacag gcagacgncg aacaacgacg 120

agacagggaa aacc 134

<210> 34895

<211> 272

<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3068-050-Q1-K1-H3
 <400> 34895
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 aggagggagg gaacaacgtc tcagctggat ctatTTTTTT ttatgagaat aatccaaata 120
 gacattggct aaccgaaccc aacacgagaa ccaatccaca ggagggttaa aaaaaccggc 180
 ggttgttctt tgaaaagaag tccgtccatt agaagaatga ccaggccatc gccgagacca 240
 acggcaaggc caagcccgcg gttaacccaa gc 272

<210> 34896
 <211> 66
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-050-Q1-K1-H8
 <400> 34896
 gacagacata gcactactat agtgtgacct aaattcaatt cagtgagagt aaacttacia 60
 agtacg 66

<210> 34897
 <211> 69
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-051-Q1-K1-B12
 <400> 34897
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aagggaiaaa 60
 aaagaaaaa 69

<210> 34898
 <211> 72
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-051-Q1-K1-C1
 <400> 34898

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa ataaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaggaaaaag aa 72

<210> 34899
<211> 187
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-E1

<400> 34899

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaagg aaaaagata taaaagataa 120
aaaaattaca tacacatgaa tgaaaagtaa taaataatgg tatagtggta ctataaatc 180
aattcat 187

<210> 34900
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-E11

<400> 34900

aaaaagaact cacggaataa ttgttcgtct tgtatcatat ttaatcgtag gaataaataa 60
cctcatttac aactcagttt cgcaaatttg cgctaagaaa attaagcctg cgtgcgccgt 120
gagattcatg cggagtgacg agcaaaaacc acgctactag taccattacc agccggccgt 180
gagccgcagt tcctgcagcc gtgccggcgt cggccaactc caagaacaga tctacggtaa 240
actctagtac taatcttttt tgtacgtacg tatagtgggc acaaattgtg tccgtatgta 300
cgccgtatct atagatactt cacgaggaag aaagaatcgg tgtcgtgtcg tgtcgtgtc 359

<210> 34901
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-E8

<400> 34901

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 gcttggttcag tgatgtgtct tctatgaaga aagttgagtg cctatgtgtg agcatgcttg 180
 cttgtaacga gacattgaat tgttcggaaa tgagcattcc tgtgctcttc ttgaaaataa 240
 aaaacataaa taaatattat aattatttta atttatttta tttattctat catattttat 300
 atttatactt aattttttat atatataatt aatctctttt a 341

<210> 34902
 <211> 91
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-H10

<400> 34902
 aaaaaaaaaa aaaaaaaaaat aaaaaaaaaa aaaagaaaaa aaaaaaaaaa agagaaaaaa 60
 atgaaaaaaa aaaaaaaaaa aaaaaaaaaa a 91

<210> 34903
 <211> 262
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-H4

<400> 34903
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 ctaatgggtc tacaaattca agtgagaaca attcattgtg tgacctatat tccaagcttg 120
 ctaatgatgc aaggctatat ggtgcatgtg acaatgatca aagccacttg ccgtcaactt 180
 cttaagtttt accgtttgca tactccaatt catattattt tctaaccttc aagtttacct 240
 gacttgctta ttggcacccc tt 262

<210> 34904
 <211> 256
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-A10

<400> 34904

ggataaaaaa cactcccaca ctcgtcgggc ccctagacaa cgccaacatc tacactaacc 60

ttactgacac cagctccacc gggaatgcac acccaccctc aacccccaac acctggacta 120

caggcccacc gacgtcgccc actatgagga ccacacgtta caccgaaact cgcacgccag 180

cactcagcac cttctcctgc gacacgccc gccccaccac gagccgaccg gctacaacta 240

ctcatcgaac gaagac 256

<210> 34905

<211> 91

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-A7

<400> 34905

aaaaaaaaaa aaataaagta aaaaaaaaaa ttaaaaaaaaaa aaaaaaaaga ggaaaaaaaaa 60

agagaataaa aaaaaaaaaa aaaaaaaaaa a 91

<210> 34906

<211> 175

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-B7

<400> 34906

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caaatatcta aaaaagctca aaaaccgcta tttaataaac ctgcttatta ttatgtaatt 120

ggtcaagtaa atgctgacca agccaaagat ccttaccttt acttttccca tgatc 175

<210> 34907

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-B9

<400> 34907

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gcgtctacac catgggccta gatgtatata caaaattaca tcaactacat acataacaca 120
 gtctacacca ccaagaacga gtcacctgac atgctcacca cgcacactac tcacccagtt 180
 agcttctaac cacacgacaa gtactatcgc cagcgggtacc tgttgaagaa cacatttgta 240
 cttatgccaa cacagaatcc agcactgaac tactgaagct tcaactttcc aaccatggat 300
 gtgcaaattg tgtaactgat tgatgcttgg ttgctgcaat gtacaaatag tatcttatga 360
 aaccatttaa aactgctac gcactactat gacatctcag cgcatttaag cactata 417

<210> 34908
 <211> 108
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-E9

<400> 34908

cccacgcgtc cgccacgcg tccgccact cttccgccca cgcattcgcc cactcgtcct 60
 ggacacgttc cgccgacgcg tctcccacg cgtacgccca cacgtcct 108

<210> 34909
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-B4

<400> 34909

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 gggg'gcacc tttcgcactt caccctctga actctgacct tgctccgcga agttgtttcc 120
 ttttcttcta ttatgacaaa tgcagtcgct tgatcaagca tctagacggc cgtttctactc 180
 ccgttcacgg aagtacagac cacgtgtcct gccggacttt gtttcggtca agctgagtgt 240
 gcacacgcgt atccatgcct tactcaactg ctgacctgta acatctaaat ggtctgctct 300
 gcgtcacgtg gtactcatca gcaaacactt gacagccttt tcaccgatca ccaacgcctc 360
 gttgccttgc cactggctga gcattgacct gcagctatct gccttgcacg cacgacaccc 420
 gtat 424

<210> 34910

<211> 52
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-053-Q1-K1-C10

 <400> 34910

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<210> 34911
 <211> 353
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-053-Q1-K1-C5

 <400> 34911

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 taccgggtgt actggaacgc ctaccaccac tcggtcggct acgcatcat cgtgctgggc 180
 gtcgtcaaca tcttcaagg catggccatc ctgcacgtg agcagaggtg gaagacgggc 240
 tacatcgccg ccatctcgt cctcggcgc gtcgccgtg cctggaggc cgtcacgtg 300
 ggcgtcgttc tgaggcggag gaaggaggaa agcaagagct acaacggcac ctc 353

<210> 34912
 <211> 381
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-053-Q1-K1-D10

 <400> 34912

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 ctgagacacg tgtgcatgcc ttgtagccac tatgatatac tgtcacctaa tttcaattca 120
 ctgaataagt tttatcacct taaaaactgt gaaaacccat ttgttcccca acgttatagt 180
 cttcctaaca tctaattta ttcaacaaac gtaatataga ataaatctca acagattggt 240
 ctttccaaca ttattccatc atgaatggtc aattggatgc gctttgtatc gatacattac 300
 acgcacagtg tgaatttatt acatccattc atactcgtaa attattaaat gacctagcat 360

ctgggttatct taatagattc a

381

<210> 34913
<211> 96
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-D2

<400> 34913

aaaaaaaaac atacaaaaaa aaaaaaaaaa tataaaaaaa aaaataaaaa aaaaaaaaaa 60

agagagaaaa aaaaaaaaaa acaaataaaa aaaaac 96

<210> 34914
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-G9

<400> 34914

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atccacagga gggtaaaaaa aaccgccgct gtccttttga gaggaggctg gtccatcata 120

agagtgcga ggctatcgcg gagaccactg cgagcgctac gccgtcgctg accccagtcc 180

ggaacttgac accgctgccc gcggcgctgt cgctcgagg gttgccgtca gctgacggcg 240

tgatcttaga ggcgttggca aacagggcgt actccgcaaa gcctggcttc aggttcagca 300

aggagatgca ctgcgagacg tttgagttgg tgaggttgca agcagcggac atcgccatga 360

gtcgatccaa gcgcatgccg agcgactgta 390

<210> 34915
<211> 230
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-H11

<400> 34915

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ggttgtcacc gtcagagttg acttgcatc tttgctcctg atcctgtcgg ttaccgtgga 120

tcacatttcc tgttgaatta cacaaaagcc tactggtttc taatagattg ctgccaccta 180
 caatattatg acgctgctga actttaaaag caaccaaattg cggccgaaga 230

<210> 34916
 <211> 275
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-A6

<400> 34916

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 aagagtctaa ttttactcgc cccccctccc cctcctttct ttctttttta ttaaaccaaa 120
 attcaattca cttgcctctt ttttccaaac ttttgggctt gcaaacctct ttcataaacc 180
 aaatttatcc ccttttaaaa aaattcccct ttttttttgt tgtcccaaaa aaaaaaaac 240
 cccccccctt tttcaaacc caaaaattttc caaaa 275

<210> 34917
 <211> 312
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-B10

<400> 34917

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 aggaggtgcy acagaggaac gaaacctccg cgacgaagcc gcggagtcag actgacctac 120
 cggccacttg cggctaaggg ctttaaggacc tgctccggga tgcgccggct ctcggatgca 180
 tacctggctc tgggttccgt catcttacga cagctggat gggcgggaga ttacacggac 240
 cccaggggca acgccaatct ggcgtaacga aggtcgagtc ggcgttcgct gtactaactg 300
 gtattctagg tc 312

<210> 34918
 <211> 82
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-B11

<400> 34918

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aagagaaaaa aaaaaaaaaa aa 82

<210> 34919

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-B9

<400> 34919

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gggttttgtc aagaccggca agagcaatgc gtacttcaag cgtttccagg tgaagttcaa 120

gagaaggcgc gctggcaaga cagactacag ggccaggata aggctgatta accaagacaa 180

aaacaagttc aatacaccca aatacagatt tggtgtgcga tttaccaaca aggacatcac 240

agcacaaatc atctctgcta gtatagcagg tgatatgggt cttgcttctg cttactcgca 300

tgagttgccg cgatatgggtc 320

<210> 34920

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-F12

<400> 34920

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ggcgctgtgc ggcgtcgtcc ccggcgtaat cggctacggc gtgatgcagc tcaccggctc 180

ccgcaacgag cagctcgagg cccaccttcg ctccacggcc cgtcccgaga ccacgatgat 240

ggggcaagtg aacagggaga ggctggcgga gtttctcggc gagctgcaac ggaaagagga 300

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 accaatttaa ttgatacttt atgtcacagt gtatatgttt atgtgtcatt tgtttttctt 180
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 <212> DNA
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 <223> Clone ID: LIB3068-055-Q1-K1-C11

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 ccttgctttc aaaatcataa cttttttata atgcccccta aattcaatta actggccctc 240
 ttttaaaaac atcctaattt gaaaaaccct tgctttccca aattaaacc ctttgaaaaa 300
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 <223> Clone ID: LIB3068-055-Q1-K1-E6

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<212> DNA
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<223> Clone ID: LIB3068-055-Q1-K1-F12

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<210> 34926
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<212> DNA
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<223> unsure at all n locations

<223> Clone ID: LIB3068-056-Q1-K1-A1

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 caacgctttg agaataaaag ctttctcttc atctgtatat tttattttta atgaaagaaa 180
 taaaccacta tatatttcga caaaaaaaaaa aaaaaaaaag ggaggaccat ctaaaagaac 240
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 aattcaatt 129

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tctacctttt gattagggtt ttgtaccctt gttgttccct ttggttgctc ccgctatgaa 120

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<211> 244

<212> DNA

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tctgtcaccg tgtagtgctc cgttctacct ttggattagg tgttggtacc cctgttgctc 180

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<212> DNA

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<223> Clone ID: LIB3068-057-Q1-K1-C6

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<212> DNA

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<223> Clone ID: LIB3068-057-Q1-K1-E7

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<212> DNA

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